

Dr. Yogesh Malhotra, MIT AI SME Post-Doc, Top-10 PhD, MSCS, MSNCS, MSQF, MS-Acc, MBA, CEng, CISSP, CISA, CEH

Who's Who in America®, Who's Who in the World®, Who's Who in Finance & Industry®, Who's Who in Science & Engineering®

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"The new business model of the Information Age, however, is marked by fundamental, not incremental, change. Businesses can't plan long-term; instead, they must shift to a more flexible anticipation-of-surprise model."

- **CIO Magazine** Interview, Dr. Yogesh Malhotra

"Obsolete what you know before others obsolete it and profit by creating the challenges and opportunities others haven't even thought about..." – **Inc. Technology Magazine** Interview, Dr. Yogesh Malhotra

Artificial Intelligence-Machine Learning-DL Quant Cyber Crypto C5ISR Quantum Computing Leader-Pioneer: Global Practices: Silicon Valley-Wall Street-Pentagon: AI-ML-DL, Quant, Cyber, Crypto, Quantum Computing

- Goldman Sachs, Google, IBM, Intel, JP Morgan, Wall Street Hedge Funds \$Trillion AUM, Worldwide Organizations
- MIT C-SAIL & Sloan: AI-ML-DL-NLP-RPA-Robotics: CEOs-CxOs-Management Hi-Tech Strategy to Execution Leader
- Princeton Quant-Crypto Presentations: AI-Cyber-Crypto-Quantum Computing: Sponsors: Goldman Sachs-Citadel
- Silicon Valley VCs-CEOs, Wall Street Hedge Funds, National Science Foundation, UN, US-World Governments Expert
- United States Air Force: Top Science Role: Interviews: USAF Chief Scientist: Advisor, USAF Secretary, USAF-USSF COSs
- United States Air Force & Space Force: Pioneer: Beyond ABMS JADC2 to Faster-Better-Cheaper ABMS2 JADAC2-CAC2
- ACM-IEEE Computer Sc. Expert: Cyber Security, FinTech, NIH, SBIR/STTR: CFA-PRMIA Risk Modeling Expert: AutoML-VaR
- National Association of Insurance Commissioners-State of New York: Network Security Engineering-Risk Modeling.

Global Industry Benchmarks: Digital Transformation Pioneer Interviews: CIO, Fortune, Inc., Wall Street Journal...

Global Risk Management Network LLC: CEO-CIO-CTO-CISO: Global Practices, Technologies, Teams, Ventures

- CEO-CIO-CTO-CISO: AI-Machine Learning-Deep Learning, Cyber-Crypto, Block Chain-Cloud, Quantum Computing
- World's First, Foremost & Largest Digital Transformation Practices Network: Millions of Users, 130 K+ Members
- Adopted & Recommended by Harvard MBA, MIT, Bill Gates-Microsoft, PwC Vice-Chairman & CKO, US DoD-CIOs...
- Computerworld Top Digital Site: Carnegie Mellon-IndustryNet Awards Top-3 Search Engine: Top-10 Social Network
- CEO USAF-AFRL Ventures: AIMLExchange™: C4I-Cyber™: Pioneer: ABMS2 Beyond JADC2: Air-Space-Cyberspace-EMS
- Chief Data Scientist: CxO Teams: USAF Pentagon CTO-DoD CIO Advisor: USAF Secretary, JAIC CTO: AFWERX PI
- CEO-CxO Team: Chief AI-ML-Crypto Strat-Tech Architect: Blockchain-Cloud Computing Pioneer: Asia, Australia
- GIBC Digital Managing Director, \$1 Billion Global AI-ML-Cyber Excellence Ctr., Retained by ex-Bridgewater CEO
- CISO, New York State Cyber Expert, Zero-Trust Architectures-Network Segmentation, CISSP, CISA, CEH, CEng; Security+.
- JP Morgan-Goldman Sachs Alumnus: Wall Street Hedge Funds \$1 Trillion AUM: Strategy & Risk Modeling Quant
- JPM Global Head of Analytics-US Head of PM Teams Leader: Managing Directors, Portfolio Managers, Quants
- Derivatives, Equities, Fixed Income: Liquidity Risk, Market Risk, Credit Risk: 400 State Street Hedge Fund Strategies
- Qiskit, Python, SciPy, NumPy, pandas, ScikitLearn, TensorFlow, Jupyter, SAS, MATLAB, C++, SAP-ERP/CRM, php, MySQL.

Global R&D Impact: Ranked Among AI & Finance Nobel Laureates: AI-Quant-Cyber-Crypto-Quantum Computing

Post-Doctoral STEM R&D Leadership: Global Advanced Strategy & Technology Innovation-Execution

- MIT-Princeton Industry Expert: Post-Doc Engineering R&D: AI-Cyber-Crypto-Quantum Computing-Risk Management
SSRN 74 Top-10 R&D Rankings: Top 1% Authors: Algorithms-Models-Controls-High Performance Computing
Executive Faculty-SME: MIT, Carnegie Mellon University, Kellogg School of Management, Queen's (Canada), INSEAD (France)
Professor: IT-Operations Research-Supply Chain-Decision Science-Quant Methods-MBA Faculty: Syracuse University
Professor: STEM Computer Science-Network Security-DevOps-Advanced Analytics-JavaScript, JQuery, JSON: SUNY
Top 10 Quant-IT MIS PhD Fellowship: IT-Telecom-Quant: Quantum Uncertainty: AI-ML-KM-HCI: University of Pittsburgh
- Engineering Degrees: MS Computer Science, MS Network & Computer Security 1st: Outstanding Student Award
 - Quantitative Degrees: MS Quantitative Finance, MS Accountancy 1st 4.0/4.0, MBA Econometrics 1st 4.0/4.0

"Yogesh Malhotra says his vision is to fill the gaps between business and technology, data and knowledge, and, theory and practice..." – **Fortune Magazine** Interview, Dr. Yogesh Malhotra

"The synergy of 'smart minds' and 'smart technologies' provides a basis for defining agile and adaptable supply chain networks that can withstand the challenges of a radically changing business environment."

– **Institute of Supply Management** Interview, Dr. Yogesh Malhotra

Global CEO, CIO, CTO, CISO, C5I-Cyber, Offensive & Defensive Cybersecurity & Risk Management Impact Highlights

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| <ul style="list-style-type: none">▪ Global Technology Strategy Leader▪ Global Digital Innovation Visionary▪ Global Digital Transformation Pioneer▪ Google Digital Marketing Leadership▪ Silicon Valley Digital Leadership▪ Wall Street Analytics Leadership▪ Pentagon-DoD Cyber Leadership | <ul style="list-style-type: none">▪ Marketing & Advertising Leader▪ Global Customer Relations Leader▪ Global Emerging Tech Pioneer▪ Global Cross-Cultural Team Leader▪ Global Business Leaders Leader▪ Budgeting & Planning Leader▪ Global Vendor Development Leader | <ul style="list-style-type: none">▪ CEO-CIO-CxO C-Suite Practices Leader▪ Global BPR-Workflow Innovations▪ Global Consumer Persuasion Leader▪ Global Business Model Innovation Leader▪ Global Process Re-Engineering Leader▪ MIT Leadership AI-Automation Leader▪ Princeton Quantitative Finance Leader |
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Executive Profile

Dr. Yogesh Malhotra is the Chairman & CEO of the New York, USA, based global venture capital and private equity firm Global Risk Management Network, LLC. As CEO, CIO, CTO, and CISO of global Digital ventures with global clients-patrons such as Goldman Sachs, Google, IBM, Intel, Microsoft, and, Ogilvy, institutions such as Harvard and MIT, and, ACM, NSF, UN, U.S. and world governments, he is an industry pioneer in Quantum Information Science, Human-Centered Artificial Intelligence (AI), Knowledge Management (KM), and, Digital Transformation. As Industry Expert for MIT Computer Science & AI Lab, he led 200 Management & Leadership executives from firms such as Google and Microsoft to develop, deploy, and, implement AI, Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), and, Robotic Process Automation (RPA) strategy road maps. As Industry Expert for the Princeton Quant Trading & Finance and Crypto-FinTech Conferences sponsored by firms such as Goldman Sachs and Citadel, his presentations advanced Cyber-Crypto resilience practices for AI-ML-DL-GANs (Generative Adversarial Networks) and Quantum Computing and Quantum Cryptography.

As pioneer of Advanced Battle Management System 2 (ABMS2), Joint All Domain Adversarial Command & Control (JADAC2) and Joint All Domain Counter-Adversarial Command & Control (JADCAC2), the world's top retained Executive search firm for the United States Air Force (USAF) and United States Space Force (USSF) recently interviewed him for USAF Chief Scientist, Pentagon role, the top Science role for USAF-USSF as the advisor to the USAF Chief Secretary and the Chiefs of Staff of the USAF and the USSF. Over recent years, as founder of USAF-AFRL (Air Force Research Lab: Information Directorate) Commercialization Academy ventures AIMLExchange™ and C4I-Cyber™, at the request of Pentagon CTO and U.S. DoD CIO senior advisor, he has served as Chief Data Scientist and Chief Scientist (AFWERX PI and Advanced Science Leader) enabling DoD-wide AI-ML enablement for the Secretary of the United States Air Force (USAF) and Joint Artificial Intelligence Center (JAIC) CTO, and, a global inter-agency COVID rapid response network respectively. Before that, he was retained as full-time global Managing Director on the senior leadership team by the CEO of GIBC Digital to head a \$1 Billion global AI-ML center of innovation excellence. Over above time span, he also represented the CEO of a global Block Chain Cloud Computing pioneer on investment road shows across Asia and Australia while leading and guiding the CEO, COO, and, CTO team on AI-ML-Cyber-Crypto tech architecture and platform development and strategy. Prior to that as Cybersecurity expert for State of New York, he led Zero Trust Architectures execution for the top digital Government Administration in CISO role. Before that he led Quant Risk Modeling for Wall Street Hedge Funds with \$1 Trillion AUM while leading teams of Managing Directors, Portfolio Managers, and, Quants for the JP Morgan Global Head of Analytics Research and US Head of Portfolio Management.

His above CEO-CxO teams leaderships advance upon his prior leadership of global Digital Practices, Technologies, Teams, and, Ventures adopted-recommended by industry leaders such as Microsoft founder Bill Gates, Big-4 Consulting CxOs, and, U.S. Army, Navy, and, Air Force CIOs. Building upon 25-year leadership of CEO-CIO-CTO practices and teams, his recent Air Force Research Lab (AFRL) Commercialization Academy ventures advance AI-ML-DL and Cyber-Crypto, Quant, and, Quantum practices enabling global Digital CEO-CxO teams to build next generation resilient Digital enterprises while saving 90% time and cost. His automation and optimization focus built upon leadership of AI-ML-DL and Knowledge Management practices is complemented by his solid Risk Management focus.

His latest AI-ML-DL-Quant-Cyber-Crypto-Quantum industry expert papers and presentations such as for the *Journal of Financial Transformation* and *Journal of Operational Risk*, and, Chartered Financial Analyst (CFA) Society, and, National Association of Insurance Commissioners (NAIC) and Data Science innovations such as Model Risk Arbitrage™ build upon prior leadership of Wall Street investment banks with \$1 Trillion AUM such as JP

Morgan in Financial Risk Management, and, State of New York in Cyber Security and Network Security Risk Management.

With 74 Top-10 SSRN research rankings for latest post-doctoral R&D papers and presentations on AI-ML-DL-Cyber-Crypto-Quant-Quantum technologies, his prior impact of Human-Centered AI and Quantum Uncertainty research is ranked and recognized among Nobel laureates in Information Technology & Knowledge Management, and Finance & Capital Markets such as Herbert Simon and Black-Scholes, and, recognized by various awards including CNet Networks Corporate Computing Award for most influential research.

Editorial reviews of his practices, technologies, teams, and, ventures as global industry benchmarks are featured worldwide by the world's premiere global business and technology media such as Business Week, Fortune, Fast Company, Inc., Wall Street Journal, New York Times, Computerworld, Information Week, CIO Magazine, etc.

His biographical profile has been selected for listing in the most prestigious global biographical references of world's top leaders and achievers for over 20 years by Marquis Who's Who® such as in Who's Who in America®, Who's Who in the World®, Who's Who in Finance & Industry®, and, Who's Who in Science & Engineering®.

Information Technology Experience in Business, Strategy, and Technical Leadership

Senior IT Executive leading IT Vision, Leadership, and, Strategic and Operational Executions at global, national, state, and, global, multi-national, and, national enterprise implementations of large-scale enterprise applications including Big-3 IT and Big-3 Banking firms such as Bank of America and Wall Street investment banks. Led Management and Leadership teams including 200 CxO, Senior Director, and, Director executives for the MIT AI and Business Strategy program building IT vision, strategy, and, roadmaps for firms such as Google, Microsoft, and, Silicon Valley tech startups. Guided and led CEO-CIO-CxO teams such as for enablement of DoD wide AI and Machine Learning enablement with the U.S. Air Force Secretary as the client, pioneering global Block Chain Cloud Computing network platforms, and, as Managing Director retained to head a \$1 Billion global AI and Machine Learning Center of Excellence leading national digital transformations of emerging economies such as Bahamas. Led and advised teams of Managing Directors for Wall Street hedge funds with \$1 Trillion AUM including JP Morgan Private Bank and a Goldman Sachs Alumnus firm. For State of New York county with 100,000 constituents, designed the enterprise information security program and led the corporate systems organization's adherence to ensure integrity, confidentiality and availability of relevant data. 25-years track record of building, and, leading worldwide IT Leadership, IT Vision and Strategy, Business-IT Alignment, Enterprise Information Security, Enterprise Application Systems, Corporate Finance Leadership, and, Insurance Industry Best Practices adopted and applied by worldwide firms, governments, and, institutions. Advisor on IT Vision, Policies, Strategies, and Execution for global firms such as Intel, British Telecom (UK), and, Philips (Netherlands), and, for UN, and, U.S. and world governments such as Switzerland, Netherlands, Mexico, and, S. Korea. Editorial reviews of IT and IT Strategy practices, technologies, ventures, and, teams as global benchmarks in global media such as Business Week, Fortune, Fast Company, Inc., Wall Street Journal, New York Times, Computerworld, Information Week, CIO Magazine, etc.

Information Technology Experience in Business, Strategy, and Technical Leadership

▪ Information Technology Leadership	▪ Insurance Industry Best Practices	▪ CEO-CIO-CxO C-Suite Practices Leader
▪ IT Vision, Strategy, and, Road Maps	▪ Enterprise Application Systems	▪ Publications, Keynotes, Interviews
▪ Operational Execution Excellence	▪ Cross-Functional Collaboration	▪ Business-IT Alignment Relationships
▪ Enterprise Information Security	▪ Cross-Cultural Team Building	▪ Project Governance & Management
▪ Integrity, Confidentiality, Availability	▪ Large Scale IT Implementations	▪ Financial Accounting & Budgeting
▪ Team Development and Leadership	▪ Corporate Finance Expert	▪ Innovation, Transparency, Accountability
▪ Business Growth and Performance	▪ Dynamic Leader and Influencer	▪ Collaboration and Consensus Building

• Career track record of high impact IT Strategy, Operational Execution, and, Team Development for high-impact Business Performance leading global Finance-IT-Risk Management practices, ventures, technologies, and, teams in national and worldwide leadership roles spanning Defense and Finance culminating into Air Force Research Lab Commercialization Academy ventures.

- US Air Force-Air Force Research Lab Commercialization Academy Ventures: AIMLExchange™ (New York State IDEA Awards: Finalist, Fall 2019) and C4I-Cyber™ (2020 Cohort), Founder, Global Network of Digital

CEO-CxO Teams, to save 90% Time, Cost, and, Resources in Building and Monetizing Digital Ventures while accelerating Strategy and Operational Execution and minimizing Strategy and Operational Execution risks.

- USAF HQ AI-ML Commercial Exchange CEO-CxO team, Senior USAF Leaders CEO-CxO team, served at invitation of USAF Pentagon CTO and advisor to U.S. DoD CIO, with the product clients being Secretary of USAF for U.S. DoD-wide Joint Services wide AI-ML Technologies advancement and the CTO of the Joint Artificial Intelligence Center (JAIC). Developed product price estimate at \$30 Million for its each customer instance for Public-Private Commercial Exchange.
- Led CEO-CIO-CxO teams such as for DoD wide AI and Machine Learning enablement with the U.S. Air Force Secretary as client, pioneering global Block Chain Cloud Computing network platforms, and, as Managing Director retained to head a \$1 Billion global AI and Machine Learning Center of Excellence leading national digital transformations of emerging economies such as Bahamas.
- Led Management and Leadership teams including 200 CxO, Senior Director, and, Director executives for the MIT AI and Business Strategy program building IT vision, strategy, and, roadmaps for firms such as Google, Microsoft, and, Silicon Valley tech startups.
- Led and advised Information Technology Administration and Networks Administration leadership teams leading Enterprise Information Security and pioneering Network Segmentation and Zero Trust Defense-in-Depth strategies for New York State county.
- Led and advised teams of Managing Directors, Portfolio Managers, and, Quants for Wall Street hedge funds with \$1 Trillion AUM including JP Morgan Private Bank and a Goldman Sachs Alumnus firm reporting to Global Head of Risk Management and Analytics.
- Global IT and Risk Management consulting practices leader across USA, North America, Europe, and Asia for largest telecom and electronics firms such as British Telecom (UK), and, Philips (Netherlands). U.S. Cybersecurity-Computer Science Expert on 32 National Science Foundation national expert panels leading multi-million-dollar commercialization of US IT and Cybersecurity innovations.
- Founded Digital Risk Management network with global clients and patrons such as Goldman Sachs, Google, IBM, Intel, Microsoft, Ogilvy, Harvard, and, MIT, millions of worldwide users, more than one hundred thousand contributors, and, a team of 200 PhD industry experts building global Digital practices through collaborative R&D contributing into global network members practices.
- Founding co-Editor of Ziff Davis Global Standard for Internet Commerce leading nationwide U.S. CIOs and CTOs for development of national and global standards. Real impact of industrial R&D and practices for leading Cyber-Transformation of worldwide governments, firms, and, institutions including US and global defense agencies such as U.S. DoD and CIOs of Army, Navy, and, Air Force ranked among Finance-IT Nobel laureates by AACSB, IT industry surveys, and, premiere scientific studies.
- Invited Digital Transformation expert advisor and thought leader for U.S. Federal Government – as council partner – and parliamentary cabinets of world governments and nations such as Government of Switzerland, Government of Netherlands, Government of Mexico, and, nation of South Korea; United Nations, Conference Board, and, Institute for Supply Management.
- Invited IT and Cybersecurity Strategy, Banking & Finance, and, Cyber Risk Management thought leader keynotes and presentations for *Fortune 500* CSOs & CROs, Wall Street investment bank executives, and, Silicon Valley venture capitalists and CEOs.

- Industry-leading IT Strategy, Operational Execution, Business Performance, and, Risk Management presentations leading global practices at Princeton Quant Trading and FinTech conferences (2018, 2016, 2015), Armed Forces Communication and Electronics Association (AFCEA) Cyber & C4I Conference (2018), New York State Cybersecurity Conference (2016, 2019), US National Chief Risk Officers & CSOs Keynote (2015), New York State Cybersecurity and Engineering Technology Association Conference (2015), etc.

- IT Strategy, Operational Execution, Team Development, and Business Performance publications such as invited for publication or published in Capco Institute's *Journal of Financial Transformation* (2019), *Risk.Net Journal of Operational Risk* (2019), *Risk.Net Journal of Operational Risk* (2018), *National Association of Insurance Commissioners* (NAIC) Cyber Risk Insurance expert paper (2017), etc.

- Built world's top-ranked technologies including Top-Digital Site, Top-3 Search Engine, and, Top-10 Social Network. CxO-CIO leadership interviews and editorial reviews in premiere worldwide business technology media including *Wall Street Journal*, *New York Times*, *Fortune, Inc.*, *Fast Company*, *Business Week*, *CIO Magazine*, *CIO Insight*, *Computerworld*, *Information Week*, etc.

CSI-Cyber, Offensive & Defensive Cybersecurity, and Risk Management Experience

Top-3 DoD Directive 8140 (DoDD 8140-DoDD 8570) IT Security Management & Auditing Certifications:

- NIST Risk Management Certification: NYS Network Security+ Instructor: NYS SUNY-Poly Top Ethical Hacker-Pen Tester
- Since 2005: CISSP Certified Information Systems Security Professional CNDSP Manager, IAM Level III, IAT Level III, IASAE II
- Since 2007: CISA Certified Information Systems Auditor CNDSP Auditor, IAT Level III: ISACA Certified: ISC2 Certified
- Since 2014: Certified Ethical Hacker CNDSP Auditor, Incident Responder, & Infrastructure Support: EC-Council Certified
- Since 1993: CCP-CDP Certified Computing Professional-Certified Data Professional: Computing & Data Management
- Since 1989: C.Eng. Chartered Engineer: Professional Engineering Credentials: Life Member: The Institution of Engineers

Over 25-Years of Cybersecurity, Computer & Network Security, Information Security and Finance-IT-Risk Management Strategic, Operational, and, Tactical Leadership roles with Wall Street Investment Banks-Hedge Funds with \$1 Trillion AUM such as JP Morgan; Big-3 Finance-IT Banking and IT firms such as Bank of America and Unisys Corporation, and, Management Consulting clients such as Intel Corporation. Recent Cybersecurity-Risk Management CISO-Level role reporting to CIO-Level role, New York State IT Administration, New York State Civil Services, Government Administration of 1,000 internal users responsible for 100,000 constituents of the New York State. Digital Transformation Strategy clients-patrons such as Goldman Sachs, Google, Harvard, IBM, Microsoft, MIT, and Ogilvy; US Federal Government and world governments and nations such as Switzerland, Netherlands, Mexico, and, South Korea. Founded Digital Ventures leading worldwide CEO-CIO practices followed and recommended by IT leaders such as Microsoft founder Bill Gates; CIOs of U.S. Army, U.S. Navy, U.S. Air Force, and, U.S. Marine Corps; and, Big-4 Consulting CKOs, and, profiled as industry benchmarks in editorial reviews and interviews in Business-IT press including *Wall Street Journal*, *Fortune, Inc.*, *Fast Company*, *Business Week*, *New York Times*, *Computerworld*, *Information Week*, *CIO Enterprise*, and, *CIO Insight*.

Global Cybersecurity Risk Insurance industry standards leading invited presentations at 2015 and 2016 Princeton Quant Trading Conference on Cyber-Risk Insurance, and, Cyber-Finance at the Princeton University. Related Cyber Insurance and Risk Management post-doctoral research ranked by SSRN in 74 Top-10 Research Rankings and in Top-1% SSRN Authors for 2015-2020. Advanced upon strategic and technical hands-on leadership of Wall Street investment banks with \$1 Trillion AUM such as JP Morgan guiding Executive Directors, Managing Directors, and, Portfolio Managers. As technical expert and projects' and teams' leader in Finance-IT-Risk Management industry and New York State government leadership roles, defined, designed, executed, and, implemented regulatory and industry standards and best practices ensuring compliance with Federal, State, Industry, and, Vendor-specific Cybersecurity and Risk Management criteria such as ISO, NIST, FIPS, COBIT, OWASP, Qualys, SANS, PCI-DSS, NYS Cybersecurity Rule, Microsoft, Cisco, Fire Eye, etc. Cybersecurity Risk Engineering for Leading Cyber Deterrence including Benchmarking & Deployment of Cyber Security Technologies: Applications, Devices, End Points, Hosts, Networks, Operating Systems, Unified Threat Management-Firewall, and, Mobile Device Management Systems

such as: AirWatch, Check Point, Cisco, FireEye, Fortinet, Fortis, Intel, McAfee, Microsoft, Palo Alto, PDQ Deploy, ProofPoint, Qualys, Sophos, Symantec, VMWare, WatchGuard, etc.

Cybersecurity Industry Standards & Best Practices Development Leader

Under the general direction of the Chief Information Officer (CIO) level executive, IT Administration, the Chief Information Security Officer (CISO) level role serves as a member of the IT Administration senior leadership team and provides domain expertise, direction, and, policy guidance on Cyber Security and IT Administration and Networks Administration. The CISO level role provides direction on information security and privacy across all of enterprise multi-site facilities and programs including all Financial Systems, Healthcare Systems, and State Emergency Response Systems affecting 100,000 constituents. This position has broad authority and management responsibility for protecting the privacy, confidentiality, integrity, and availability of enterprise information and services. The CISO level role aligns services responsible for information security, privacy, and security operations to enable enterprise business objectives within acceptable levels of security and privacy risk.

Benchmarking & Deploying Cybersecurity Risk Engineering for Leading Cyber Deterrence:

Cyber Security Technologies: Applications, Devices, End Points, Hosts, Networks, O/S, UTMs:
AirWatch, Check Point, Cisco, FireEye, Fortinet, Fortis, Intel, McAfee, Microsoft, Palo Alto, PDQ Deploy, ProofPoint, Qualys, Sophos, Symantec, VMWare, WatchGuard, etc.

Best Practices & Industry Standards:

CERT, Cisco, FBI, FIPS, Fire Eye, Gartner, GIAC, ISACA, Microsoft, NIST, NSA, OWASP, SANS, etc.

Penetration Testing-Ethical Hacking Frameworks & Tools

Metasploit, Nmap, Wireshark, Several Others.

Cybersecurity Leader leading, executing, implementing, and, guiding New York State wide and Enterprise wide IT Administration and Network Administration practices with focused domain expertise in Quant Finance, Cyber Security, Cryptography, Networking-Encryption Protocols, Penetration Testing-Ethical Hacking, Machine Learning Algorithms, Computational Quant Analytics, Risk Analytics.

CISO-Level Cybersecurity-Risk Management Leader, IT Administration & Networks Administration

CISO-Level Cybersecurity-Risk Management Leader: IT Administration & Networks Administration reporting to CIO-Level role.

- **Enterprise-wide IT, Telecom Networks, Cybersecurity & Risk Management, Controls & Compliance Policies,** Best Practices, Strategies, Technologies, including Enterprise Level Implementations, IT Procurements and Contracts.
- **Multi-Factor Authentication & Credentialing; User Access Controls & Group Management Policies** for all Users including Authentication, Credentials, Password Policies, BYOD MFA & 2FA Policies, Anti-Malware Botnet and Anti-Ransomware Policies, etc.
- **Multi-site Systems Administration including Group Management Policies & Configurations,** Cybersecurity Risk Management Controls & Compliance Policies, UAC, and Defense-in-Depth against Advanced Threats & Attacks.
- **Multi-site Enterprise-wide Telecom Networks, Hosts, Devices, Applications, OSs, and, IPs Vulnerability and WWW Applications Vulnerability Detection & Remediation** leading Risk Mitigation, Network Security, Risk Management, & Compliance Policies, Strategies, &, Implementation, and, WWW Security Standards and Secure Coding Practices.
- **Multi-site Enterprise-wide Penetration Testing & Ethical Hacking enabling Pre-emptive and Anticipatory Risk Management and Controls** for Cybersecurity Risk mitigation for Networks, Applications, Hosts, Devices, Firmware, Embedded Systems, SCADA, and, Third-Party Services and Infrastructure Providers.

- **Multi-site Enterprise-wide development of Zero-Trust UTM, NGFWs, IPS/IDS, VLANs/VTP/STP, and UAC-ACL Policies and Architectures** using Network Segmentation based upon industry-leading Cyber Security, Risk Management, and Compliance Policies.

- **Multi-site Enterprise-wide Networks, Operating Systems, Hosts, Applications, and Mobile Device Management Security Controls** Risk Management Audit & Threat Analysis including Identification, Elimination, Containment & Mitigation of Critical Risks.

Defense-in-Depth Enterprise Networks & Computer Security-Privacy Leader

- **Enterprise Networks-Perimeter & Networks Segmentation:**

Enterprise Networks-Perimeter and multi-layered Network Segmentation hardening against cyber-attacks tracked by newly upgraded Unified Threat Management infrastructure using Big Data Analytics, High Frequency Time Series Data Analytics, and, Networks Logs Analysis.

- **Enterprise Hosts & Server End Point Protection Security:**

Endpoint (EP) upgrades for Hardening against Cyber Attacks coupled with Attacks and Malware reports analyses. Continuing bench-marking, Procuring and Implementation focus on more robust EP solutions to integrate, simplify, and, economize current EP & MDM infrastructures.

- **Enterprise User Access Controls, Credentials, Passwords:**

Passwords, credentials, user access controls (UAC), and, privilege reviews and upgrades at the Policy, Networks-UTM, Operating Systems, Applications, Host, and Device levels and Policies and Processes for tiered UAC and credentials for various internal and external user groups.

- **Enterprise Security Content Automation Protocol Implementation:**

MS-Windows O/S and Applications hardening based on security, risk, and compliance group policies development and Active Directory-Group Policy implementations ongoing with Security Content Automation Protocol – Security Compliance Manager.

- **Enterprise Microsoft Network Operating Systems & Applications Security:**

MS-Windows Active Directory-Group Policy Network Operating Systems security configurations for hardening Windows Network O/S and Microsoft Windows based MS-Office software applications for mitigation of cybersecurity threats & attacks.

- **Enterprise Mobile Device Management & Multi-Factor Authentication:**

Coordinating enterprise-wide administration Mobile Device Management for mobile devices toward simplified administration and MFA/2FA while also reviewing latest technologies for integration of MDM with EP.

Zero-Trust Cybersecurity Architectures & Networks Segmentation Leader

- **Zero-Trust Network Segmentation:** Benchmarked-selected top-ranked UTM to replace prior NGFW. Reviewed-audited configuration of 125 UTM Policies and RADIUS-based VPN policies to apply robust networking and encryption protocols for mitigating threats from SMB, NetBios, SNMP, NTLM, and, PPTP.

- **Security Content Automation Protocol (SCAP):** Configured more than 1,000 Group Policies using Security Compliance Manager. Configured, installed, and, implemented active directory (AD) and group policy management (GPM) policies.

- **Validation & Audit of IP Networks Subnets & VLANs** Identified-eliminated threats and vulnerabilities in Information Gathering, TCP/IP, General Remote Services, Firewall, and Web Server hardening network, servers, hosts, applications, and devices, and, access controls and authentication protocols such as SSL/TLS, IPSec, STP, and VTP.

- **OWASP secure coding practices adoption by Systems, Analysis, and Design teams** blocking cyber-attacks such as SQL injection attacks, and, buffer overflow attacks advancing secure PKI authentication and TLS 1.2, IPsec, AES256, and RSA2048.
- **Audit of Virtual Private Networks using RADIUS to bolster credentials authentication** by advancing mobile VPN Authentication from PPTP to L2TP and IPsec eliminating reliance upon CHAP thus advancing toward enterprise-wide non-reversible encryption.
- **Reconfiguration & Implementation of AD-GPM Default Domain Controllers Policy** for Network Security advancing toward secure Kerberos authorization and authentication architecture for enterprise-wide users.
- **Reconfiguration & Implementation of AD-GPM Default Domain Policy** for securing user credentials advancing upon development of secure host-based user access credentials architecture for enterprise-wide users.
- **Development & configuration of AD-GPM Password Security Objects (PSOs)** to advance development of fine-grained password policies for different privilege levels of enterprise wide internal and external users.

Quantitative Finance & Trading, Investments, Quant Risk Management Experience

Technologies: SAS, MATLAB, C++, MS-Excel, VBA, Bloomberg, NYSE-TAQ, CRSP

Project Leader, Venture Capital Projects, Wall Street Investment Bank Projects, Manhattan

- Liquidity Risk, Market Risk & Credit Risk Modeling, Portfolio Liquidity Risk Optimization

- Hedge Fund Risk Modeling, Trading & Hedging Strategies for Maximizing Alpha

Market Risk Models

Volatility Models, ARCH/GARCH, MLE, Portfolio VaR, QMLE, Non-Normality, Cornish-Fisher, Extreme Value Theory (EVT), Expected Shortfall (ES), Coherent/Spectral Risk Measures, Weighted/Filtered/Historical Simulation, Monte Carlo, Backtesting VaRs/ES, Stress Testing, Basel II/III

Credit Risk Models

Probability of Default (PD), Loss Given Default (LGD), Expected Default Frequency (EDF), Basel II/III, Exposure at Default (EAD), Worst Case Default Rate (WCDR), Risk Weighted Assets (RWA), Counterparty Risk, CreditMetrics, KMV, VaR, Credit Valuation Adjustment (CVA), Credit Default Swaps, Default Probabilities, Gaussian Copula, Simulations, Large Portfolio Approximation, Stress Testing

Interest Rate Derivatives Models

Simulations, Tree Models, Calibrations; Continuous Time, CIR, Vasicek, Merton, Hull-White, BDT, & HJM Models; Bond Options, Treasuries, Coupon Bonds, Caplets, Floorlets, Swap Contracts, Bond Risk Premia, Yield Curve, Markov Regime Switching

Equity Portfolio Models

Derivatives, Mean-Variance Portfolios, CAPM, Passive/Active Portfolio Performance, Multi-Factor Models, Cross-Sectional Returns, Asset Allocation, Risky/Risk-Free Portfolios, Diversification, Risk Pooling, CAPM, Anomalies, Dividend Discount/Growth Models

Fixed Income Portfolio Models

Bond Valuations, Derivatives, Yields, Term Structure, Credit Spread, Credit Risky Bonds, Interest Rate Risk, Portfolio Performance, Passive/Active/Liability Funding, Hedging, Swaps, Forwards, Futures, ABS, MBS.

Project Leader, JP Morgan Portfolio Construction, Optimization & Stress Testing

JP Morgan Private Bank, JP Morgan \$500-600 Billion Fund of Funds, Midtown Manhattan, NY.

Portfolio Construction & Optimization and Stress Testing
Technologies: MATLAB, SAS, C++, MS-Excel, VBA, Bloomberg

Alternative Investments, Hedge Funds, Equities, Commodities, Fixed Income, Bonds, Currencies

Asset Pricing, Risk Management, Liquidity Risk, Market Risk, Credit Risk, ALM Risk, Portfolio Risk, Investment Risk, Non-Normality, Non-Linearity.

Led quantitative portfolio liquidity modeling for \$500B fund-of-funds & hedge funds (HF).

Led literature review of all liquidity risk models, methods, and measures.

Led project management & scheduling and delivering high quality results on time.

Led interpretations of all outcomes and presentations to Quants, CIO, MD, PM.

Assets: alternatives, HF, equities, commodities, fixed income, bonds, currencies.

Analyzed market risk, credit risk, ALM risk, portfolio risk, investment risk.

Led modeling and stress-testing for all asset classes and composite portfolio.

Led validation of all liquidity and liquidity risk models and measures.

Led verification of model performance, limiting behaviors, responses to stress.

Led modeling of pricing & risk measurement with specific focus on liquidity.

Led evaluation of third-party models, data, software for diverse asset classes.

Led inventorying of model assumptions and assessment of model risks for all assets.

Modeled historical simulation, parametric & modified VaR, expected shortfall.

Modeled and analyzed multi-asset volatility, variances & correlations, GARCH, MLE.

Modeled VaR, QMLE, non-normality, Cornish-Fisher, EVT stochastic models for assets.

Modeled and analyzed liquidity risk models for all assets and portfolio optimization.

Identified & defined benchmark indices & data sources for all asset classes.

Assessed soundness of liquidity & liquidity risk models for assets & portfolio.

Project Leader, JP Morgan Portfolio Liquidity Risk Modeling Framework

JP Morgan Private Bank, JP Morgan \$500-600 Billion Fund of Funds, Midtown Manhattan, NY.

JP Morgan (JPM) Hands-On Team Leadership Projects Leader

JP Morgan Portfolio Liquidity Assessment Framework Development Leader

Mentor: JPM Global Head of Quantitative Research & Analytics, JPM US Head of Portfolio Construction: JPM Top-4 Leadership ED in Global Financial Crisis Management, Harvard Case Study.

Advised: Team of Senior EDs/MDs, Portfolio Managers, Quants.

JP Morgan Portfolio Construction & Optimization Liquidity Assessment Framework

Asset Pricing, Risk Management, Liquidity Risk, Market Risk, Credit Risk, ALM Risk, Portfolio Risk, Investment Risk, Non-Normality, Non-Linearity. MATLAB, SAS, C++, MS-Excel, VBA, Bloomberg.

Developed Large Equities, Developed Small Equities, Emerging Equity, Unlisted Equity,
Various Commodities,

Government Bonds, Investment Grade Bonds, Inflation-Linked Bonds, High Yield Corporate Bonds, Emerging
Market Hard Currency Bonds, Emerging Market Local Currency Bonds,

Major Currencies,

Statistical Arbitrage Hedge Funds, Equity Hedge Hedge Funds, Merger Arbitrage Hedge Funds, Macro Hedge
Funds, Relative Value Hedge Funds.

17-Asset Class Portfolio Liquidity Assessment & Stress Testing Research & Analysis

Technical Framework & Project Management Foundation:

Exhaustive Review of Recent 25-Years of Liquidity Measurement Research
in Academic, Policy, and Practice Literatures:
Technical Liquidity Risk Models, Methods, & Measures Research:
~5,000 documents ~ 60,000 pages

Project Leader, Hedge Fund Quantitative Finance & Financial Risk Modeling

Goldman Sachs Alumnus' \$400-500 Billion Asset Management Firm, Midtown Manhattan, NY.

Project: Hedge Fund Quantitative Finance & Quantitative Risk Modeling
Goldman Sachs Alumnus' \$400 Billion+ Asset Management Firm.

Mentor: Wall Street SVP Hedge Fund Manager with Top Wall Street Investment Banks:

Mr. Eric Yeh, Wall Street Hedge Fund SVP/PM.

Firm: Top Wall Street Investment Bank launched by a Goldman Sachs alumnus with \$400 billion to \$500 billion AUM at the time of the project.

SAS High Frequency Econometric Modeling of Market Microstructure
400 State Street Associate Trading Strategies Analysis for Alpha and Risk
Hedge Fund Performance Analysis
Quantitative Finance, Quantitative Risk Modeling of Liquidity as Price Impact.

Analyzed 400 Finance & Economics Empirical Research Papers on Alpha Trading Strategies.
Replicated /Analyzed Large Scale Data HF Econometrics Models of Market Microstructure.
Critical Review of State Street Associates Quarterly Scan Trading Strategies.
High Frequency Econometrics Models of Trade Price Impact & Market Microstructure.
Researched Co-Integrated Time Series for Ultra-High Frequency Tick-and-Quote (TAQ) Data.
Presented and Taught VARMAX Models of Co-Integrated Time Series for HF Econometrics.
Analysis: Why Existing `Alpha` Research Is Insufficient for Profitable Hedge Fund Asset Management.

PROFESSIONAL ROLES & AFFILIATIONS

GLOBAL RISK MANAGEMENT NETWORK, LLC: AIMLExchange™, C4I-Cyber™, Utica-Rome, NY **1993 – To Present**
Global Digital Transformation Leader: World's Largest Digital Transformation Network

Global Corporations: Goldman Sachs, Google, HP, IBM, Intel, Microsoft, Ogilvy
Consulting Firms: Accenture, Ernst & Young, McKinsey, PriceWaterhouse Coopers (PwC)
World Governments: Australia, Brazil, Canada, China, European Union, UK, USA
U.S. Defense: AFRL, Air Force, Army, CCRP, Comptroller, DISA, DoD, NASA, Navy
World Defense: Australia (Air Force), Canada (Defence R&D), UK (Ministry of Defence)
Healthcare: WHO, US Health and Human Services, UK Dept. of Health, European HMA
Universities: Harvard, INSEAD, MIT, Princeton, Stanford, UC Berkeley, Wharton
Associations: AACSB, ABA, ACM, AICPA, AOM, APICS, ASTD, ISACA, IEEE, INFORMS

UNITED STATES AIR FORCE: AIR FORCE RESEARCH LAB: DIGITAL TRANSFORMATION VENTURES, Rome, NY **2018 – Current**
Global Digital CEO-CxO Networks, USSF-USAF-AFRL Commercialization Academy Ventures

IAGON, Hamar, Norway; Kuala Lumpur, Malaysia; Sydney, Australia **2018 – 2018**
CEO-CIO-COO Team – AI-ML Advisor, Represented CEO on Global Road Shows for Investors & Major Funds

GIBC DIGITAL LLC, Brooklyn, NY, Bahamas **2018 – 2018**
Managing Director – Retained by CEO to Head \$1 Billion Global AI-Machine Learning Center of Excellence

MIT COMPUTER SCIENCE & AI LAB, MIT SLOAN SCHOOL OF MANAGEMENT, Boston, MA MIT AI Industry Expert: Led 200 CxO, Senior Director, Director industry executives: Google, Microsoft, etc.	2017 – 2018
AMERICU, Yorkville, NY Retained by CIO and Vice-President Marketing to Execute CEO's Vision of Amazon-Like Enterprise Analytics	2017 – 2017
STATE OF NEW YORK CIVIL SERVICES, Bath, NY Deputy to the CIO Role: Steuben County: IT Administration & Networks Administration: CISO Role	2016 – 2017
STATE UNIVERSITY OF NEW YORK, Corning, NY STEM Computer Science Assistant Professor, Cyber Security, DevOps, Analytics, Tenure-Track	2015 – 2016
JP MORGAN PRIVATE BANK & GOLDMAN SACHS ALUMNUS FIRM, Midtown Manhattan, NY Wall Street Hedge Funds with \$1 Trillion AUM: Led Teams of Managing Directors, PMs, Quants	2012 – 2012
SYRACUSE UNIVERSITY, MARTIN J. WHITMAN SCHOOL OF MANAGEMENT, Syracuse, NY Associate Professor (Promoted, 2008), IT & Operations Research (OR) MBA Faculties, Tenure-Track	2001 – 2009
FLORIDA ATLANTIC UNIVERSITY, COLLEGE OF BUSINESS, Ft. Lauderdale, FL Assistant Professor, IT-Operations Research MBA & Executive MBA Faculties, Tenure-Track	1998 – 2001
UNIVERSITY OF PITTSBURGH & UNIVERSITY OF PITTSBURGH MEDICAL CENTER (UPMC), Pittsburgh, PA UPMC CIO Digital Transformation: Process Management-Change Management-Business Strategy	1993 – 1998
GLOBAL BIG-3 IT & BIG-3 BANKING IT STRATEGY & EXECUTION: GLOBAL FINANCIAL SYSTEMS Bank of America Merger (Las Vegas, NV), Banque Indo-Suez (Hong Kong), Unisys (Atlanta, GA), TATA (India)	1987 – 1993
SUZUKI MOTOR CORPORATION: MARUTI SUZUKI INDIA LTD., Gurgaon, India Executive (Information Systems): Team Lead Financial Systems; Executive Engineer (Process Engineering)	1984 – 1987

ACADEMIC QUALIFICATIONS

- **Post-Doc AI-ML-Quant-Cyber-Crypto-Quantum Computing R&D**, MIT Computer Science & AI Lab and MIT Sloan School of Management Industry Expert.
- **PhD Information Systems: AI-ML-KM-HCI**, 3.9/4.0, Beta Gamma Sigma Honors, *Full Scholarship*, University of Pittsburgh, Katz Graduate School of Business, Pittsburgh, PA.
- PhD Research fellowship with Top-10 founder of Information Systems and IT Strategy pioneer, University Professor William R. King.
- **MS Computer Science**, 3.7/4.0, SUNY Polytechnic Institute, College of Engineering, Utica, NY.
- **MS Network & Computer Security**, 1st, 3.97/4.0, SUNY Polytechnic Institute, College of Engineering, Utica, NY, *SUNY Outstanding Student Award*.
- **MS Quantitative Finance: Statistical Physics & Applied Math**, 3.7/4.0, Fordham University, Gabelli School of Business, New York City, NY.
- **MS Accountancy**, 1st, 4.0/4.0, SUNY Polytechnic Institute, College of Business, Utica, NY, *SUNY Perfect GPA Award*.
- **MBA**, Econometrics, Statistics, and, Optimization, 1st, 4.0/4.0, Beta Gamma Sigma and Phi Kappa Phi Honors, *Full Scholarship*, University of Nevada Las Vegas, College of Business, Las Vegas, NV.

EXECUTIVE EDUCATION

- **University of California Berkeley**, Haas School of Business, Financial Engineering (Statistical Physics & Applied Math).
- **Kellogg School of Management** *Professional Risk Managers' International Association (PRMIA)*: Quantitative Risk Management (Statistical Physics & Applied Math).

CERTIFICATIONS & AFFILIATIONS

- **CISSP** Certified Information Systems Security Professional
- **CISA** Certified Information Systems Auditor
- **CEH** Certified Ethical Hacker
- **CCP/CDP** Certified Computing Professional / Certified Data Professional
- **CEng** Chartered Engineer and Life Member of the Institutions of Engineers
- **SAP/ERP** Enterprise Resource Planning Faculty Certification, SAP University Alliance
- **SAP/CRM** Customer Relationship Management Faculty Certification, SAP University Alliance
- **CPA Education** Fulfilled by AICPA New York Education: State of New York MS Accountancy degree from the State University of New York.
- **Kaufmann Foundation** University Entrepreneurship Faculty Certification.

RESEARCH & PUBLICATIONS

**AI-Quant-Cyber-Crypto-Quantum Computing, Cybersecurity, Knowledge Management, Risk Management
R&D Impact of Research Ranked & Recognized among AI and Finance Nobel Laureates in Studies of
Accrediting Academic Associations in Business and Information Technology: AACSB/ASIS&T.**

SSRN Research Network: https://ssrn.com/author_id=2338267

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Google Scholar: <https://scholar.google.com/citations?user=MGblsfkAAAAJ>

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AWARDS & HONORS

<https://www.yogeshmalhotra.com/rankings.html>

AACSB & ASIS&T R&D Impact Rankings among Nobel laureates in Business & Technology: Finance & AI
Air Force Research Lab CA Top-10 Ventures: New York State IDEA Award Finalist AIMLExchange™: C4I-Cyber™
Armed Forces Communications and Electronics Association C4I & Cyber Security Conference Presentation
Academy of Management, Doctoral Consortium Fellow, University of Pittsburgh PhD Candidate
Academy of Management, Best Reviewer Award for Structural Equation Modeling Best Paper
American Soc. for Info. Sc. & Tech. Citation Analysis, Top-45 Knowledge Management Scholars of All Time
Association for Information Systems Doctoral Consortium Fellow, University of Pittsburgh PhD Candidate
CFA Society, Invited Keynote: JP Morgan and Goldman Sachs Practices Case Studies: Auto-Machine Learning
CNet Networks Corporate Computing Award for Most Influential Research as Syracuse Faculty
Carnegie Mellon: Industry.Net National Awards, Top-3 Web Search Engine among Lycos and Alta Vista
Computerworld Internet Forecast 'Top Digital Site' Award: World's Largest Digital Transformation Network
The Conference Board CxO Keynote Speaker for Malcolm Baldrige National Quality Award CxOs
Drexel University Survey, Top-3 Knowledge Management Scholar among Tom Davenport & Ikujiro Nonaka
Government of Mexico: National e-Government Expert: Cabinet Ministers, 13 CIOs, 600 IT Leaders
Government of Netherlands: Advisor to National Cabinet: Educational, Tech & Institutional Infrastructures
Government of Switzerland, Global Expert, Transformation of Banking & Finance, Math-FinTech Algorithms
Hong Kong Institute of CPAs, Interview on Global Financial Regulation of Bitcoin and Crypto Currencies
Intel Corporation Next Generation e-Business Architectures Invited Expert Paper
MIT Sloan School of Management-MIT Computer Science & AI Lab AI and Machine Learning Industry Expert
Nation of South Korea: Vision Korea Campaign: Invited National Keynote and National TV Interview
National Association of Insurance Commissioners National Expert Panel and Expert Paper on Cyber Insurance
National Science Foundation 32 National Computer Sc. & Cyber Security Expert Panels as Syracuse Faculty
New York State Cybersecurity Conference Invited Presentation on Finance Sector focus on Cyber Finance
New York State Cybersecurity Conference Invited Presentation on AI-Machine Learning Augmentation
New York State Cybersecurity and Engineering Technology Conference Full Paper and Research Presentation
Princeton University Princeton Quant & FinTech and Princeton Quant Trading Conference Presentations
Queen's University (Canada), Fulbright Invitation as Fulbright-Queen's University Visiting Research Chair
Social Science Research Network, SSRN, 74 Top-10 Research Rankings and Top-1% Author Rankings
Syracuse University, Multiple Research Grants and Inter-Disciplinary Curriculum Innovation Grants
Syracuse University, Recognized by SU Chancellor and President as Exemplar of Serving the Public Good
United Nations HQ Global Macroeconomists Expert Panel Keynote on Knowledge Assets Measurement
United Nations HQ Global Macroeconomists National Knowledge Assets Measurement Expert Paper
University of Minnesota Citation Analysis, Top-58 Knowledge Management Scholars of All Time
United States Federal Government, Council Partner, Inter-Agency Benchmarking Best Practices Council
US & World Governments and Parliaments Invited Advisor & Keynote Speaker
Ziff Davis Global Standard of Internet Commerce co-Founding Editor: Led US National CIOs & CTOs
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