

ERIC J. KADEN

CYBERSECURITY | AI/ML | DATA SCIENCE | EXECUTIVE LEADER

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QUALIFICATION SUMMARY

- 17 years of leadership in AI/ML, and cybersecurity across defense and intelligence missions
- Founder of consulting firm delivering strategic advisory, security automation, and AI solutions
- Trusted advisor to executives and government leaders on AI/ML strategy and modernization
- Track record building new capabilities from concept to execution, including a cyber business unit
- Pioneer of enterprise AI platforms spanning agentic AI, FinOps, and knowledge management
- Deep expertise from penetration testing and threat emulation to ML development and deployment
- Direct-commissioned Army Cyber Officer with TS/SCI with CI polygraph leading cyber AI initiatives
- Architect of compliance-to-threat intelligence transformation and automated security operations
- Natural communicator who turns complex data problems into clear strategic business advantages

RELATED SKILLS

- » **Enterprise Analytics** Decision Support, Business Intelligence and Forecasting, Executive Reporting
- » **AI/ML** Agentic AI, LLM/RAG, Machine Vision, Transformer, Neural Network, Reinforcement Learning
- » **Data Science** Data Modeling/Training, Predictive Analytics, Anomaly Detection, Data Visualization
- » **Cybersecurity** Threat Intelligence/Emulation, Penetration Testing, Vulnerability Assessment, Defense
- » **Risk Management** Zero Trust, Incident Response, Disaster Recovery, Compliance Strategies
- » **Data Engineering** MLOps, Data Pipeline Architecture, ETL, Data Modeling/Quality/Lifecycle
- » **Big Data/Database** Data Lake/Warehouse, SQL, Spark/Hadoop, Databricks, Graph Database
- » **Cloud Computing** Amazon Web Services, Google Cloud Platform, Microsoft Azure, FinOps
- » **Operations/Leadership** Strategic Planning, Program Management, Process Improvement
- » **Personnel/Change Management** Talent Development, Cross-Functional Organizational Readiness
- » **Governance** Cybersecurity Policies, Data Privacy, GRC (NIST, FISMA, CMMC), Secure/Responsible AI

EDUCATION

- Oct 22 – Mar 26 **Master of Science Candidate** in Information Security Engineering
SANS Technology Institute (North Bethesda, MD)
- Aug 22 – May 26 **Master of Science Candidate** in Computer Science (Specialization: Machine Learning)
Georgia Institute of Technology, College of Computing (Atlanta, GA)
- Aug 13 – May 14 **Doctor of Philosophy Candidate** in Computer Science (15 Credit Hours)
Texas Tech University, College of Engineering (Lubbock, TX)
 - Research Interests: Artificial Intelligence, Machine Learning, Data Science
- Sep 10 – May 13 **Master of Science Candidate** in Computer Science (27 Credit Hours)
New York University, Courant Institute of Mathematical Sciences (New York, NY)
- Sep 06 – Jan 11 **Bachelor of Arts** in Computer Science (Minor in Chemistry)
New York University, College of Arts and Sciences (New York, NY)

PROFESSIONAL AFFILIATIONS

- » Global Information Assurance Certification (GIAC) Advisory Board
- » CompTIA Subject Matter Expert (DataX, SecAI+, Security+, DataSys+, Data+)
- » Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines
- » Military Cyber Professionals Association (MCPA)
- » International Information System Security Certification Consortium (ISC)²

CLEARANCE

- » Active Top Secret Clearance / Secret Compartmented Information (TS/SCI) with CI Poly (Nov, 22)

CERTIFICATION

- » **ISC2** Certified Information Systems Security Professional (CISSP) **PMI** Project Management Professional
- » **CompTIA** DataAI, SecurityX (CASP+), CySA+, PenTest+, Security+, Linux+, Network+
- » **GIAC** GSP, GSEC, GCIH, GPEN, GCIA, GSTRT, GDSA, GPYC, GSLC, GRTP, GX-CS, GX-IH, GX-IA
- » **Others** Certified Ethical Hacker (EC-Council), ICCA (INE), eJPT (INE), Python Associate

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CURRENT EXPERIENCE

Jan 26 – Present **Vibrint, Inc.** (Reston, VA)

Principal AI/ML Engineer, Advanced Technology Programs:

- Architect enterprise AI/ML solutions spanning geospatial intelligence, cybersecurity, and national defense missions for Intelligence Community customers, serving as the organization's AI/ML Technical Leader
- Advise C-suite executives on AI/ML strategy, investment priorities, and technology roadmaps as a trusted strategic advisor bridging technical innovation with organizational objectives
- Lead cross-functional AI/ML teams across multiple program areas while developing AI/ML talent pipelines and building organizational AI readiness
- Drive revenue growth and competitive positioning as business development subject matter expert, contributing AI/ML technical expertise to captures, bids, and proposals
- Define and shape the enterprise AI/ML strategy, serving as chief architect for AI/ML integration across cybersecurity, GRC, and mission-critical platforms, translating business requirements into scalable technical solutions

Sep 20 – Present **CatalyticAI** (Herndon, VA)

Founder/Chief Executive Officer:

- Founded and lead a cybersecurity and AI/ML consulting firm delivering strategic advisory services to defense contractors and federal cybersecurity organizations at the intersection of cybersecurity, data science, and compliance
- Advise senior executives and CISOs, including engagements with the Department of Veterans Affairs and NIST, on leveraging AI/ML to transform compliance and GRC frameworks into actionable threat intelligence
- Assess client environments to identify automation opportunities and develop enterprise AI roadmaps, architectures, and courses of action that maximize operational impact with minimal disruption to existing workflows
- Lead AI initiatives for the Center for Internet Security that automate benchmarking, reducing workload from hours of manual effort to near-real-time delivery
- Contribute to the development of industry standards for securing AI systems and applying AI to cybersecurity operations as a CompTIA Subject Matter Expert
- Develop and commercialize innovative AI-driven cybersecurity platforms, advancing the state of the art in threat intelligence and security automation, compliance transformation, and agentic AI for security operations

Sep 20 – Present **U.S. Army Reserves Officer** (Fort Belvoir, VA)

Direct Commissioned Cyber Operations Officer (17A, Analytic Support Officer):

- Serve as Lead Data Scientist for the Army Reserve Command Chief Data and Analytics Office (CDAO) under the Office of the Chief of Army Reserve, driving AI/ML and data science initiatives that transform business processes and enable data-informed decision-making across the Army Reserve enterprise
- Deployed as part of the Operational Data Team (ODT) to integrate advanced analytics into live Army operations, demonstrating how data literacy, predictive modeling, and modern platforms elevate commander decision support from legacy methods to real-time, data-driven capabilities
- Commanded a Cyber Protection Team of Officers, Technicians, and Analysts, mentoring personnel in cyber operations and data analytics while executing missions across defense networks
- Directed cyberspace and intelligence operations, integrating machine learning and advanced analytics into threat detection and operational response
- Led enterprise data integration efforts across structured and unstructured sources to inform mission planning and strategic decision-making
- Deliver executive-level intelligence briefings translating complex technical findings into actionable strategy for senior military leadership

**PAST
EXPERIENCE**

May 22 – Dec 25 **Data Machines Corporation** (Reston, VA)

Mission Area Lead, Cyber Analytics and Resilience:

- Conceived and established a new Cyber-focused mission area, developing the vision, mission, and capability roadmap to expand the company's portfolio from DevOps into AI/ML-driven cyber operations, securing executive approval and reporting directly to the CEO on progress and strategy
- Led business development efforts to identify and pursue contract opportunities in AI/ML and cybersecurity, engaging organizations including U.S. Cyber Command, NSA, and ARFL
- Partnered with stakeholders to translate technical gaps into product strategies aligned with national security and compliance goals, including supporting enterprise CMMC readiness

Lead Data Scientist:

- Directed research and development of AI/ML and data science solutions spanning computer vision, NLP, and geospatial intelligence for strategic defense applications
- Designed scalable analytics platforms fusing data science and cybersecurity to surface actionable intelligence in complex, mission-critical environments

Aug 23 – Jul 23 **U.S. Army Cyber Protection Brigade** (Fort Gordon, GA)

Chief Data Scientist:

- Directed the design and deployment of machine learning capabilities for threat detection and mitigation across large-scale defense networks as the Brigade's first Chief Data Scientist
- Developed and operationalized analytic schemes of maneuver, enabling comprehensive threat assessments across critical infrastructure at enterprise scale
- Pioneered automation of threat intelligence workflows, transforming multi-day manual processes into rapid, repeatable analytical pipelines

Dec 20 – Apr 22 **Ridgeline International, Inc.** (Tysons, VA)

Chief Data Scientist, Network and Security Operations Center:

- Partnered with the CISO to introduce AI/ML and data science capabilities into the NSOC, architecting and deploying ML-driven solutions for cyber intelligence, real-time visualization, and predictive threat modeling from concept to production

Chief AI/ML Computer Scientist, Research & Development:

- Established and led the company's AI/ML and Data Science practice, chartering the AI/ML Working Group and building the technical foundation for the organization's AI capabilities
- Defined short- and long-term AI/ML technology vision and served as principal advisor to the Executive Team on AI strategy and investment priorities
- Led research and development of emerging AI/ML technologies, translating innovations into operational solutions

Mar 18 – Sep 20 **AELIUS Exploitation Technologies, LLC** (Southern Pines, NC)

Lead Machine Learning Computer Scientist/Lead Data Scientist:

- Served as senior technical authority for AI and data science across DoD programs, providing strategic direction and subject matter expertise to program leadership
- Led research and development of innovative AI/ML solutions for the Department of Defense spanning cyber operations, decision intelligence, and mission analytics
- Designed and delivered AI/ML training curricula, building organizational capability and technical readiness across the enterprise

**EARLIER
EXPERIENCE**

Jun 14 – Jun 18 **U.S. Army Active Duty Enlisted** (Fort Bragg, NC)

IT Manager: Developed predictive modeling and statistical analysis software, managed all departmental IT projects, and advised the Department Chief on technology strategy and ongoing initiatives

Aug 13 – May 14 **Texas Tech University** (Lubbock, TX)

Instructor/Researcher: Taught Data Structures and Algorithms (4.8/5 eval) and directed research projects

Sep 09 – Oct 12 **Curiomotion, LLC** (New York, NY)

Chief Technology Officer: Co-founded a technology startup, leading a technical team through R&D to commercial product release

**SELECT
RESEARCH
AND
PROJECTS**

Vibrint Projects (2020 – Present)

- FinOps AI Agent (NGA CloudOne)
Architected an agentic AI framework leveraging chain-of-thought reasoning and autonomous tool-calling capabilities to analyze cloud spending anomalies and generate cost optimization recommendations across NGA's CloudOne environment. Projected to reduce cloud expenditure by approximately 25% through intelligent resource allocation and automated spend analysis
- OrgTrack
Designed and built an enterprise knowledge management platform powered by agentic AI with large language model inference, chain-of-thought reasoning, and autonomous tool-calling capabilities. Integrates graph database spanning HR, recruiting, personnel management, business development, and executive reporting
- MLOps Modernization Initiative
Spearheading an enterprise MLOps modernization effort in partnership with Domino Data Lab, piloting an end-to-end MLOps framework to standardize model development, deployment, and lifecycle management across the enterprise

CatalyticAI Projects (2020 – Present)

- CRISP (Cyber Risk Intelligence & Security Posture)
Designed and built an enterprise platform that automates the transformation of compliance assessment data into threat-informed security intelligence. Maps findings to NIST SP 800-53 controls and MITRE ATT&CK techniques, profiles organizational exposure against documented APT groups, and delivers multi-level visualizations. Features include interactive ATT&CK heatmaps, attack path simulation, and an agentic AI assistant. Pitched to U.S. Cyber Command. Published through SANS Institute (Kaden, 2026). **IP is wholly owned by CatalyticAI**
- Janus (Center for Internet Security)
Designed and delivered an automated benchmark validation platform, replacing labor-intensive manual cross-referencing of benchmark documents across multiple formats. Employs intelligent document parsing, fuzzy matching algorithms, and cross-reference validation to detect discrepancies in seconds.
- PolicyForge (Center for Internet Security)
Developed an automated policy template analysis engine that compares enterprise security policy configurations across version releases, identifying additions, removals, and modifications at scale. Generates executive summaries and machine-readable outputs for configuration governance

U.S. Army Cyber Command Projects (2020 – Present)

- HERMES (Hostile Entity Recognition and Malicious Evaluation System)
Leverages machine learning to rapidly assess IP addresses for potential APT affiliation or malicious activity, combining raw input with enrichment for comprehensive analysis of actionable threat intelligence complete with explainable AI
- GEMINI (Geolocated Event Monitoring and Intrusive Network Identifier)
Provides threat hunting by leveraging DNS query logs to spotlight rare domains and geo-specific access anomalies to provide frequency scores that identify suspicious patterns of malicious activities like C2
- SIEM Query Complexity Analysis for Increasing Data Indexing Efficiency
Analyzed historical query logs from the enterprise big data platform to assess query complexity patterns and retrieval performance, identifying inefficiencies and recommending optimized query architectures
- Entropy-based Malicious/Engineered User Agent Analysis
Developed a flexible user agent string parser and trained an anomaly detection model to identify fabricated and adversary-crafted user agent strings targeting a sensitive Army web application

Data Machines Corporation Projects (2022 - Present)

- Cyber Hunting At Scale (CHASE) for DARPA
Enhancing detection technologies for DoDIN using AI/ML and Data Science techniques through modeling, predictive analytics and visualization
- Geospatial Intelligence Data Science/Machine Learning projects* for USG (Entrapta, Trapjaw)
- Secure platform for intelligently processing and generating medical information for ARFL

** These projects can be further discussed in person due to their sensitive nature.*

Ridgeline International Projects (2020 - 2022)

- ML/DS Cybersecurity (Intelligent Phishing Detection, U/EBA, Predictive Intrusion Intervention)
- Cohort-based Synthetic Personas (CV, NLP, DS, Pattern of Life, Persona Management)
- Graph Database Knowledge Acquisition, Management and Representation

Defense Intelligence Agency / National Geospatial-Intelligence Agency Projects (2020)

- Contributed to several defense technology projects* in the areas of data science and machine learning providing data augmentation and predictive and classification models for large geospatial/intelligence datasets with high performance computing technologies

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Joint Special Operations Command Projects (2018 - 2020)

- Led several defense technology projects* to solve complex, novel and obscure problems in the areas of machine learning (document classification, sentiment analysis, information retrieval, and object detection models), big data (sensor/data fusion), embedded and autonomous machines, and other creative learning technologies including AR/VR, computer-human interface, synthetic data, real-time human-in-loop simulation, and adaptive/active/distributed cognitive learning technologies
- Serve as a technical advisor to the Command by providing technical guidance

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USSOCOM Naval Special Warfare Projects (2019 - 2020)

- Led several defense technology projects* in the areas of intelligent and predictive analytics, geospatial intelligence, data acquisition and management, cybersecurity, workflow automation

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SELECT

ACHIEVEMENTS

- » Army Commendation Medals (3), Army Achievement Medals (5), Army Good Conduct Medal
- » Helen DeVitt Jones Excellence in Graduate Teaching Award (2014)