

Johnathan Kelsey

AI Security Engineer | Machine Learning Engineer | Cybersecurity Analyst

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Summary

Security-minded AI engineer with an M.S. in Applied Artificial Intelligence (University of San Diego), a B.S. in Cybersecurity (WGU), and CompTIA CySA+ certification. Five-plus years of independent contract engineering, including production software for a medtech startup and sensor-testing software for the National Weather Service. Hands-on experience across the full system stack: from network cabling and industrial PLCs up to ML models and RLHF training data. Former founder who built, ran, and sold a business, bringing budget ownership and stakeholder communication that most technical candidates lack.

Technical Skills

- **AI / ML:** Python, PyTorch, scikit-learn, LLMs and prompt engineering, RLHF and data annotation, model evaluation, CNNs, graph neural networks (GNNs), NLP
- **Security:** Threat detection and analysis, Security Onion, vulnerability management, incident response, network security, adversarial ML and AI risk
- **Software engineering:** Python, APIs, Git, Linux, SQL, AWS and Azure
- **Infrastructure:** Structured cabling, switch installation and configuration, industrial PLC systems

Education

M.S. Applied Artificial Intelligence — University of San Diego, 2026

- Capstone: Out of the Park — Predicting the Increase in Foot Traffic Caused by Live Events
- Built and deployed on AWS a graph neural network (GNN) that forecasts foot traffic from real-world event data; achieved 13% MAPE

B.S. Cybersecurity and Information Assurance — Western Governors University, 2022

Certifications

CompTIA Cybersecurity Analyst (CySA+) · CompTIA PenTest+ · ISC2 Systems Security Certified Practitioner (SSCP) · GIAC Cloud Security Essentials (GCLD) · CompTIA Security+ · CompTIA Network+

Professional Experience

Independent Engineering Consultant — Self-employed, 2021–Present

Software Engineer (Contract) — TMG Health, 2024–Present

- Build and maintain a computer vision (CV) scanning app with an Azure-based API and database, supporting the company's mission to reduce medical waste; lead engineer on a contract running 2+ years
- Recover \$150K per month in would-be medical waste across 3 facilities
- Enforce HIPAA compliance, least-privilege access controls, and secure data pipelines

Software Engineer (Contract) — National Weather Service, 2021

- Developed software to run and record testing for new weather sensors, producing the evidence used in the congressional approval process
- Validated 89 sensors and enabled continuous data monitoring, delivering on schedule

AI Training Data Specialist (Contract) — DataAnnotation, 2024–2025

- Evaluated and ranked large language model outputs for reinforcement learning from human feedback (RLHF), flagging unsafe, inaccurate, or low-quality responses
- Completed 1,000+ tasks across code, math, and security domains, specializing in sub-agent tool calling

Sustainability Engineer — Schupan, 2025–Present

- Design waste-diversion plans for large events, balancing environmental outcomes against each client's budget
- Lead the company's first international expansion, into Canada, in 2026
- Achieved a 72% average diversion rate across 581 events, including 7.5 tons diverted at a single event

Founder & Owner — BNG Deliveries, 2012–2022

- Founded, operated, and sold a licensed cannabis retail and delivery business in a heavily regulated, compliance-driven market
- Grew to 13 employees and \$675K in annual revenue; first cannabis business in the state approved for business banking

Additional Experience

- **Network Infrastructure Technician (Contract):** Ran structured cabling and installed network switches for hospitals and schools
- **Industrial Systems Assembler (Contract):** Assembled large PLC-controlled industrial machinery
- **Substitute Teacher, Mathematics:** Middle schools, Kalamazoo Public Schools