

MAXWELL CONRAD

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PROFESSIONAL SUMMARY

Full-stack software engineer with hands-on experience at Amazon and a background in cybersecurity. Skilled in Java, Python, React, C++, and AWS-driven deployments. Proven ability to build secure, scalable systems. From Alexa microservices to AI-powered security tools. U.S. Marine Corps veteran with proven leadership, discipline, and a strong technical problem-solving mindset. I have experience serving on cross-functional teams, collaborating with colleagues from diverse departments to achieve shared goals, leverage varied expertise, and drive innovative solutions.

Education

B.S.Cybersecurity, Minor: Computer Science - *Stetson University* May 2026 (Expected)

Technical Skills: Java | Python | C++ | Bash | Powershell | SQL | JavaScript | React | Bootstrap | Vite | FastAPI | Node.js | REST | RPC | WebSockets | JWT | OAuth 2.0 | AWS (EC2, RDS, IAM, Lambda, S3) | Docker | Suricata IDS | Nmap | Burpsuite | Wireshark | OWASP | Git/Github | NGINX | Vector Databases | CI/CD | GPT APIs | Linux | Network Protocols

PROFESSIONAL EXPERIENCE

Software Development Engineer — *Amazon, Bellevue, WA* May 2025 – Aug 2025

- Developed and maintained Java-based microservices for Alexa's internal APIs, ensuring high performance and reliability at scale.
- Optimized backend architecture to deliver an 83% reduction in network traffic and 80% decrease in service latency, improving system efficiency and responsiveness.

IT Support Technician — *Stetson University, DeLand, FL* Sep 2024 – Present

- Resolved hardware and software issues for over 300 students and faculty, achieving a 95% satisfaction rate.
- Documented support processes to streamline onboarding for team members.

Marine Corps Reservist — *U.S. Marine Corps* Aug 2021 – Apr 2025

- Led logistics and operations for shipping equipment and personnel under tight timelines and high stress,
- Coordinated team communications and decision-making dashboards, minimizing errors in supply workflows.
- Honed time-management and teamwork skills are crucial for fast-paced engineering environments.

PROJECTS

ForgePrep — AI-Powered Study Platform

React, FastAPI, PostgreSQL (RDS), AWS EC2, NGINX

- Developed a full-stack platform converting study materials into AI-generated interactive quizzes and learning tools.
Implemented secure JWT auth with refresh token rotation and cookie-based session management.
- Deployed via NGINX on AWS EC2 with PostgreSQL RDS; beta-tested with 50+ users achieving a 4.8/5 satisfaction score.

AI-Augmented Security Analysis Pipeline — Senior Research Project (Fall 2025 - Spring 2026)

Python, Playwright, SQLite, Docker, LLM Agents (Ollama)

- Engineered a browser-driven multi-agent AI pipeline (Evidence, Vulnerability, Validation, Summary) for web security analysis.
- Built a deterministic vulnerability resolver integrating OSV.dev, GHSA, NVD, and CISA KEV, backed by a SQLite cache.
- Collected security headers, network logs, and asset metadata via Playwright and mapped findings to OWASP Top 10.
- Generated reproducible JSON reports for OWASP Juice Shop, Testfire, and HackThisSite with strict false-positive filtering.
- Authored a 20-page senior research proposal presenting the theoretical framework, related work, and planned evaluation for the validation-driven multi-agent security pipeline.

AI-Sec-Monitor — AI-Augmented Network Security Monitoring System

Docker, Suricata IDS, Python, DVWA, Linux Networking

- Built a multi-zone campus-style security lab (LAN, DMZ, infra) using Docker networking for realistic threat simulation.
- Deployed Suricata IDS with custom detection rules to monitor traffic across all bridge networks.
- Implemented automated attack simulations (SQLi, XSS, RCE, traversal, brute force, file upload, port scans) via Python.
- Exported validated Suricata logs (fast.log, eve.json) to confirm detection accuracy across attack categories.