Victor V. Vu

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M.S. CS student and Software Engineer specializing in secure systems, embedded software, and applied AI/ML. Delivered production-ready systems, CI/CD pipelines, and sensor platforms across academic and contract settings. Trilingual: English / Vietnamese / Japanese. (U.S. Citizen)

Education:

California State University, Fullerton — Fullerton, CA
Master of Science in Computer Science | Emphasis: Applied AI and Cybersecurity — Anticipated December 2027
Bachelor of Science in Computer Science | Emphasis: Embedded Software Engineering

Professional Experience:

Cal State Fullerton - NSA-Designated CAE-CD Program — Fullerton, CA

Cyber Forensic Analyst (Graduate Practicum) — January 2026 - Present

- Analyzed 2M+ files across E01 disk images and email archives in Autopsy, recovering 785K+ artifacts.
- Managed evidence lifecycle per NIST/ISO 27037 standards with a rigorous chain of custody.
- Authored Expert Opinion Reports detailing methodology; verified integrity via MD5/SHA-256 hashing.
- Defended findings under cross-examination in a simulated courtroom environment.

DegaSolutions LLC - IT Services and Consulting Firm — Lehi, UT

Software Engineer | Project Lead (Contract) — August 2025 - January 2026

- Resolved 50+ platform-specific crashes by implementing service registration logic and backend fixes.
- Reduced build failures by 40% by building a CI/CD pipeline with artifact caching.
- Extended device capabilities via MAUI APIs and streamlined the UI, improving responsiveness by 25%.

Software Engineer Intern (Cross-Functional) — June 2025 - July 2025

- Accelerated UI conversion by 50%, migrating 30+ Kotlin components to Blazor Hybrid via LLM tooling.
- Implemented multilingual support using 300+ localized strings, enabling dynamic language switching.

ECS Innovation Expo - Aquatic EcoSphere System — Fullerton, CA

AI Systems Engineer | Team Lead (Capstone) — August 2024 - May 2025

- Configured RPi 5 sensors (TDS, turbidity, temp.); deployed a real-time dashboard on a MySQL server.
- Integrated a Random Forest model (96% accuracy) and a rule-based toxic alert system across 12 thresholds.

Cal State Fullerton - Computer Science Department — Fullerton, CA

Teaching Assistant & Programming Tutor — August 2022 - May 2023

- Supported 90+ students across Computer Architecture and C#; evaluated for memory safety and efficiency.

Skills:

- **Languages:** Python, C++, C, C#, Java, JavaScript, Rust, SQL, Kotlin, x86-64/MIPS Assembly, Bash.
- **Frameworks & Libraries:** .NET MAUI, ASP.NET Core, Blazor Hybrid, scikit-learn.
- **Tools & DevOps:** Git, GitHub Actions, Jenkins, REST APIs, pytest, AWS, Azure, MySQL, Autopsy.
- **Core Areas:** Secure Systems, Digital Forensics, Embedded Systems, Chain of Custody, NIST / ISO 27037.

Selected Project:

Bankers Algorithm - Rust simulation of resource allocation and deadlock prevention. — December 2024

Simulated 6 concurrent processes in Rust, enforcing 0 deadlocks and 0 race conditions across 100+ executions.