

Ross W. Shelton

AI/ML Engineering — Full-Stack Development

CONTACT

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SKILLS

AI & Machine Learning

Machine Learning Fundamentals (Regression, Decision Trees, Random Forests, Clustering) • Deep Learning Fundamentals • AI Model Fine-Tuning • Prompt Engineering • LLM-Based Application Development • AI Agents • AI-Assisted / Agentic Software Development (Claude Code)

Software Engineering

Python • SQL • React & JSX • Flask • RESTful API Design • Relational Database Design (PostgreSQL) • Git & GitHub • Software Testing • CI/CD • Software Design Patterns & UML • Microservices Architecture • Kubernetes • Cloud Foundations

Systems & Electronics

Communications, Navigation & Weapons Systems Maintenance • RF / Radar Systems • MIL-STD Technical Data • Systems Troubleshooting

Professional

Technical Documentation • Cross-Functional & SME Collaboration • AI Business Transformation & Leadership • Process Management

EDUCATION

Master of Science, AI Engineering (MSAIE) — in progress
Quantic School of Business and Technology
Expected Aug. 2027

Master of Arts, Engaged and Public Humanities
Georgetown University
2022

Bachelor of Arts, Philosophy with Honors
University of California, San Diego
Magna Cum Laude
2021

SUMMARY

AI/ML engineering candidate combining a U.S. Coast Guard electronics and systems background with current graduate training in AI engineering (Quantic MSAIE, in progress) and hands-on full-stack development experience building an AI-assisted web application. Comfortable working across the stack — from machine learning fundamentals and prompt engineering to React/Flask/PostgreSQL applications and RESTful APIs — with a track record of translating complex technical systems into clear, actionable documentation.

PROFESSIONAL EXPERIENCE

General Atomics Aeronautical Systems, Inc.

Technical Writer & Editor II | San Diego, CA • July 2022 – Present

- Analyze and structure complex technical and engineering data from aerospace platform SMEs into accurate, standards-compliant XML content (\$1000D).
- Collaborate with engineering teams across concurrent aerospace programs to verify the technical accuracy of system-level documentation.
- Manage documentation production pipelines and status tracking, building process- and systems-thinking skills directly applicable to software delivery workflows.

Georgetown University — Military and Veterans Resource Center (MAVRC)

Office Assistant & Process Manager | Washington, DC • January 2022 – July 2022

- Managed digital communications and scheduling systems for a university resource center, supporting a high volume of concurrent stakeholder requests.

United States Coast Guard

Electronics Technician, Second Class | San Diego, CA • August 2006 – July 2016

- Maintained, installed, and repaired complex communications, navigation, and weapons systems electronics, including HF transmitters, radar, and small-boat systems.
- Diagnosed and resolved hardware and system-level faults under operational time constraints, applying structured technical documentation (MIL-STD).
- Bridged engineering SMEs and command leadership on new system installations, translating technical detail for varied audiences.
- Held Top Secret/SCI security clearance.

SELECTED PROJECT

Café Fausse — Full-Stack Restaurant Web Application

Independent Project • 2025

- Designed and built a full-stack reservation platform end-to-end: React/JSX front end, Flask REST API back end, and a PostgreSQL relational database.
- Implemented reservation logic with real-time availability checks, automated table assignment across a 30-table inventory, and booking confirmation/error handling.
- Built a responsive, cross-browser interface (CSS Flexbox/Grid) and an email-newsletter signup flow with input validation.
- Applied AI-assisted, agentic development practices using Claude Code to design, build, test, and document the application.
- Authored the full Software Requirements Specification (SRS) and deployment README, covering functional/non-functional requirements, environment setup, and database configuration.

RELEVANT GRADUATE COURSEWORK

AI Engineering: AI-Assisted Software Development • Prompt Engineering • LLM-Based Applications • AI Agents • AI Model Fine-Tuning

Machine Learning: Data Preprocessing • Linear Algebra for ML • Logistic Regression • Decision Trees & Random Forests • Unsupervised Learning / Clustering • Deep Learning Fundamentals

Software Engineering: Web Application & Interface Design • Relational Databases • Software Testing & CI/CD • Software Design & Architecture (UML, Patterns, Enterprise Architecture) • Microservices & Kubernetes • Cloud Foundations

AI Leadership: AI & Business Transformation • AI Leadership & Management • AI & Augmented Productivity