Daniel Maynard

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PROFILE

Senior Software Engineer with experience designing and maintaining scalable, high-quality software systems -- backend services, APIs, and automation frameworks on AWS, with a strong focus on reliability, test coverage, and CI/CD, plus AI-augmented development using LLM/agentic tooling (Claude Code).

EXPERIENCE

Medtronic — Senior Software Engineer Northridge, CA | Oct 2024 – Present

- Built and optimized backend services and validation pipelines for connected medical devices, ensuring reliable data delivery and system performance.
- Developed Python-based automation frameworks integrated into CI/CD pipelines, enabling reproducible deployments and accelerating feature delivery.
- Implemented AWS solutions (Lambda, S3, DynamoDB) supporting scalable data processing and monitoring.
- Led root-cause analysis of complex field-found issues, reproducing rare defects in-house and driving resolution across multiple teams.
- Mentored junior engineers in coding best practices, automation design, and CI/CD workflows.

Medtronic — Senior R&D Software Test Engineer Northridge, CA | Mar 2022 – Oct 2024

- Designed and maintained scalable Python and C++ test frameworks validating real-time communication protocols and data flows.
- Expanded automated pipelines for regression and integration testing, reducing manual effort by 40% and increasing test reliability.
- Integrated test frameworks into Jenkins CI/CD, improving system quality and deployment reproducibility.
- Collaborated cross-functionally to debug and optimize performance and data delivery across embedded and cloud components.

Go2F — Software Engineer Intern Remote | Jan 2022 – Mar 2022

- Implemented secure C and Python APIs with authentication and data access control, supporting scalable integration for IoT endpoints.

PROJECTS

AI-Augmented Software Development — Independent | 2025 – Present

- Designed, built, and operate a suite of production Flask/Python web applications on a self-hosted Linux server, developed rapidly using LLM / agentic tooling (Claude Code).
- Shipped live, public products behind Cloudflare tunnels (gunicorn, hardened endpoints, rate limiting, automated cron pipelines, self-healing watchdogs, SEO) with real traffic.
- Built a multi-strategy algorithmic trading platform (brokerage API, automated backtesting, live dashboard, reboot-safe scheduled execution).

TECHNICAL SKILLS

Languages	Python, C, C++, SQL, JavaScript, Java (basic)
Backend / Cloud	AWS (Lambda, S3, DynamoDB), REST APIs, microservices, Flask, gunicorn, SQLite
Automation / CI	Jenkins, CI/CD, Python test frameworks, regression automation, TDD, cron
Infra / Tools	Linux, Docker, Cloudflare, Git/GitHub, Jira, Confluence
AI-Augmented Dev	LLM / agentic development with Claude Code
Practices	Root-cause analysis, debugging, scalable software design, Agile / Scrum, mentoring

EDUCATION

Georgia Institute of Technology — M.S., Computer Science GPA 4.00 / 4.00 | Expected Dec 2026

Oregon State University — B.S., Computer Science GPA 3.5 / 4.00 | 2020

California State University — B.S., Business Administration (Accounting) 2010