

Daniel Coyle

Birmingham, Alabama

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EXPERIENCE

Akamai

Incoming Software Engineer I

Starts Oct 2026

Control Plane – Akamai Inference Cloud

Alpha Ring

Contributor & Maintainer | C++, C

Jul 2026 – Present

Open Source | 📺 Demo | 🐙 GitHub

- Contributing as part of a two-person team to an open-source **Halo: MCC** mod, which restores local split-screen co-op on PC, used by **thousands of active users**.
- Reverse-engineering and decompiling the closed-source **Halo: MCC** engine in C++ to understand systems undocumented by the original developers.
- Designing and implementing runtime hooks with **MinHook** to add features not originally supported in the source code.

Handshake

AI QA

Oct 2025 – Dec 2025

Remote

- Evaluated **AI-generated image outputs** against quality and safety criteria for a confidential frontier AI lab dataset.

CALIT2

Software Engineer Intern

Mar 2024 – Jun 2024

Irvine, CA

- Engineered a full-stack **React** platform helping users locate nearby cooling centers and access personalized heat-safety recommendations, reducing heat-related health risks.
- Increased successful location matches by **~50%** through radius-based search and client-side filtering.
- Conducted **A/B testing** to measure user engagement and guide frontend feature development.

PROJECTS

SQL Duel

In Progress

- Building a real-time **1v1 SQL competition platform** with private lobbies, live matches, and automated query evaluation.
- Developing an automated judging system using **FastAPI** and **sql.js** to execute queries and validate solutions against hidden test suites for instant feedback.
- Designing **WebSocket**-based matchmaking and **Redis** state synchronization to support concurrent multiplayer sessions.

Fabflix | Java, JavaScript, MySQL, Redis, AWS, Docker, Kubernetes

Sep 2024 – Dec 2024 | 🐙 GitHub

- Built a full-stack movie catalog web app for browsing and searching movie records, deployed on **AWS EC2**.
- Implemented a Java **SAX-parser ETL pipeline** to ingest **12,000 movies** and **25,000** actor-movie relations into **MySQL**.
- Added **Redis**-based full-text search, session-based cart functionality, and dynamic catalog rendering.
- Improved response latency by **50%** through **jMeter** load testing and connection pooling.
- Secured the application with SHA-256-hashed passwords, session management, reCAPTCHA, and PreparedStatements.
- Containerized the application with **Docker** and deployed it across **Kubernetes** on AWS for high availability.

SKILLS

Languages: Python, C++, C, JavaScript, TypeScript, SQL

Technologies: React, Node.js, Flask, AWS, Docker, Kubernetes, MySQL, Git, Pandas, Linux

Reverse Engineering: Ghidra, x64dbg, MinHook

Spoken: English (Fluent), Chinese (Working Proficiency)

EDUCATION

Georgia Institute of Technology

M.S. in Computer Science (OMSCS)

Starting 2026

Atlanta, GA (Online)

University of California, Irvine

B.S. in Computer Science

Graduated June 2025

Irvine, CA