

Quinn Flanigan

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EDUCATION

University of Massachusetts - Boston

Fall 2021 - Fall 2025

B.S. Information Technology minoring in Computer Science

Boston, MA

Computer Science Club Member, UMB Develops Program Lead, Dean's List

EXPERIENCE

Software Engineer Intern

June 2025 - August 2025

Liberty Mutual Investments | Python, React, Snowflake, Power BI, AWS, PostgreSQL

Boston, MA

- Achieved 99% code coverage for the email service CI/CD pipeline by developing comprehensive unit and integration tests in Python, significantly increasing system reliability
- Reduced Snowflake data refresh times from 4 hours to minutes in Power BI by optimizing queries and workflows, dramatically improving analytics efficiency for investment teams
- Developed and deployed AWS CDK infrastructure (Lambda, RDS, S3) to support scalable application stacks, enabling faster development and secure cloud-based operations
- Led a team to a technical excellence award in Liberty Mutual's intern hackathon, delivering a full-stack app that automated manual insurance digital stamping process using React, AWS Lambda, S3, PostgreSQL, and GraphQL

IT Engineer Intern

June 2024 - June 2025

Veolia North America | Python, Smartsheet, Jira, Lucidchart, Postman

Boston, MA

- Automated API services utilizing Python scripting and Postman testing to improve workflow efficiency
- Created over 50+ process diagrams, contributing to new system architecture for the use of Smartsheet
- Collaborated with project managers to efficiently allocate and schedule resources across 300+ IT projects

Computer Science TA

Sept 2024 - May 2025

Microsoft TEALS | Python

Boston, MA

- Supporting computer science education at Boston Latin Academy by assisting the AP Computer Science instructor
- Grading and reviewing student code while offering personalized guidance on programming best practices

Software Engineer Fellow

Jan 2025 - August 2025

Hack.Diversity | Javascript, React, MongoDB, Python

Boston, MA

- Selected for Hack.Diversity 2025 cohort (9% acceptance rate out of 1,000+ applicants)
- Improved my full-stack development and DSA skills through a technical curriculum

PROJECTS

Macero | C, C++, Embedded Systems, GATT/GAP, IEEE 802.11

May 2025

- Built a pocket-sized penetration-testing device on an ESP32 micro-controller to emulate adversary wireless behavior for a red-team cyber security research project
- Developed modular C/C++ firmware including a WiFi captive portal, high-volume BLE advertisement generator, and SSID-spoofing modules to demonstrate Wi-Fi/BLE vulnerabilities in modern devices
- Handled full hardware integration including 3D-printed enclosure, soldered electronics, LCD/buttons, and rechargeable power

Portfolio Website | Typescript, React, Node.js, Express.js, Vercel

Dec 2024

- Completed UX Design wireframes in Figma, and site development with TypeScript
- Utilized Express.js to build an API that processes form submissions
- Deployed site to Vercel with serverless functions that perform backend API actions securely

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, C, JavaScript, TypeScript, React, Express.js, Go, Swift

Web & UI: HTML, CSS, Tailwind CSS, Figma, Adobe Illustrator, Photoshop

Databases & Cloud: PostgreSQL, MySQL, MongoDB, SQLite, AWS (CDK, Lambda, RDS, EC2, S3)

DevOps & Tools: Git, GitHub, GitHub Actions, Docker, VSCode, Linux, Postman, Bash, PowerShell, Jira