

Alex Owens

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EDUCATION

Fisk University - B.S. Computer Science

Graduated: May 2024

Coursework: Intro to Computer Science 1 & 2, Data Structures & Algorithms, Computer Organization, Front End Development 1 & 2, Operating Systems, Theory of Computation, Programming Languages, Machine Learning

SKILLS

Programming Languages: C#, Python, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: React.js, Next.js, Node.js, MongoDB, Firebase, Playwright, Selenium

Platforms & Tools: Azure, Git, Docker, Azure DevOps, REST APIs

EXPERIENCE

Microsoft - *Software Engineer* (C#, TypeScript, Python, Scala, Azure DevOps) Redmond, WA | Aug 2024 - Aug 2025

- Improved deployment confidence and service reliability through implementation of Safe Deployment Practices using automated UI tests (TypeScript + Playwright) and E2E tests (Selenium + pytest).
- Reduced CI/CD deployment time by 77% (1,170 → 270 minutes) through YAML template optimization using Azure DevOps pipelines.
- Delivered telemetry and usage reporting through development of Scala libraries and Azure Synapse pipelines, leading a cross-team project to enable a new service region under tight deadlines.
- Increased team efficiency and service stability through ownership of on-call operations (resolving ~90% of incidents) for a new service and mentoring 3 new hires on workflows, architecture, and sprint processes.

Microsoft - *Software Engineering Intern* (C#, PowerShell) Redmond, WA | May - Aug 2023

- Modified a C#-based virtual file system and built PowerShell scripts for automated data collection and performance monitoring, enabling detailed analysis of system scalability and reliability.
- Demonstrated through testing that the system was not a viable replacement, preventing costly adoption risks and directly shaping long-term infrastructure decisions.

Microsoft - *Explore (SWE + PM) Intern* (C#, Python, Azure, Project Management) Redmond, WA | May - Aug 2022

- Increased anti-phishing security in Microsoft Edge through development of an automation pipeline and .NET application using C# and Azure to process and securely upload phishing data.
- Strengthened project alignment through customer meetings, specification authoring, and plan presentations to senior engineers and PMs.

Google - *STEP Intern* (Java) Remote | May - Aug 2021

- Improved Nest thermostat sync reliability through development of unit and integration testing infrastructure in Java.
- Enhanced test maintainability by refactoring test cases to reduce duplication and improve clarity.
- Strengthened team alignment and system quality through design documentation, review participation, and delivery of the final system.

PROJECTS

SentiJournal - React.js, HTML, CSS, Javascript, TailwindCSS, Firebase ([Github](https://github.com/caowens/SentiJournal))

- Built an online journal web app that tracks and visualizes mood trends using HuggingFace DistilBERT.
- Implemented authentication, journal storage, and sentiment visualizations to enhance user engagement.
- Developed frontend in React.js with TailwindCSS and managed backend in Firebase Firestore.

AWARDS & CERTIFICATIONS

- **Award:** Winner, Oral Presentation in Computer and Data Science – Fisk University Research Symposium 2024
- **Certification:** [Foundational C# with Microsoft Developer Certification](https://freeCodeCamp.org/certifications/foundational-csharp-with-microsoft-developer-certification) - Issued by freeCodeCamp