Owen Simpson

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EDUCATION

Northeastern University September 2021 – May 2025
Bachelor of Science in Computer Science *Boston, MA*
- GPA: 3.90/4.00 | University Honors Program | Dean's List
- Algorithms and Data | Object-Oriented Design | Networks/Distributed Systems | Computer Systems

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Swift, Java, Python, Golang
Frameworks/Libraries: Node.js, React.js, Next.js, SwiftUI, UIKit, React Native, Express.js, Prisma
Developer Tools: Git, AWS, Linux, GitHub Actions, Visual Studio Code, Xcode

EXPERIENCE

Software Engineer Co-op January 2024 – June 2024
Klaviyo *Boston, MA*
- SMS Market Expansion Team - Working with TypeScript, React, Django

iOS Engineer Co-op January 2023 – August 2023
Zipcar *Boston, MA*
- Collaborated on agile team of 8 engineers to implement new features and fix bugs in the Zipcar native iOS app
- Led development of membership pausing feature on iOS, preventing >10% of customers from cancelling
- Established best practices and patterns migrating codebase from UIKit to SwiftUI, replacing 25% of legacy code
- Successfully pitched company hack-a-thon project to leadership, securing 2024 development roadmap placement

Undergraduate Computer Science Teaching Assistant August 2022 – December 2022
Northeastern University *Boston, MA*
- Introduced intro level concepts including program design, unit testing, recursion, and abstraction
- Led team of 4 in weekly labs to reinforce material in a smaller environment of ∼35 students
- Provided feedback to students through grading and 4+ office hours per week

Retail Technical Associate July 2019 – August 2021
Staples, Inc *Acton, MA*
- Interacted face to face with customers to troubleshoot, perform diagnostics on faulty hardware, up-sell tech
- Maintained store by performing simple tasks such as tagging, cleaning, stocking, and contactless delivery

PROJECTS

Raid Hub | *Next.js, PostgreSQL, Express.js, Cloud Deployments, TypeScript, Golang* February 2023 – Present
- Launched sleek full-stack web app and performant REST API for tracking Destiny 2 raid stats and achievements
- Implemented advanced caching features of Next.js and Cloudflare to enhance UX, reducing load times by 70%
- Deployed complex cloud systems across Vercel, Digital Ocean, AWS, ensuring seamless integration across the site
- Managed 600GB PostgreSQL database with over 1 billion entries, optimizing queries for <50ms execution time

Pasta Zaddy Mobile App | *React Native, TypeScript, Firebase* September 2023 – Present
- Creating application for local pasta chef to manage reservations, outreach with community, and grow his brand
- Engineered custom hook-based solution to simplify Firebase SDK interface to greatly reduce development time

CarpoolNU | *TypeScript, React.js, tRPC, MySQL, Prisma.js* January 2023 – August 2023
- Delivered web app to Northeastern, helping students commute to co-ops inaccessible by public transportation
- Iterated on intuitive user interface, enabling users to join a carpool group and edit their profile page using React.js
- Developed type-safe MySQL backend that facilitates seamless user connections, group management, and favorites

Ada-2 | *JavaScript, Discord.js, MySQL, AWS EC2, Cron, AWS Lambda* October 2022 – November 2022
- Developed web bot using JavaScript and MySQL to track rare items for players in game Destiny 2
- Optimized the algorithm to crawl over 2,000 profiles in under 5 minutes, ensuring real-time data accuracy
- Deployed application to cloud to service 100+ guilds and 2000+ users daily using cron jobs on AWS Lambdas
- Managed operations by triaging feature requests and bugs in public forum