

Owen Simpson

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science

Sep. 2021 – May 2025

- GPA: 3.89/4.00 | University Honors Program | Dean's List
- Algorithms and Data | Object-Oriented Design | Computer Systems | Discrete Math

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Swift, Bash, HTML, CSS, Java, MySQL, C, Python

Frameworks/Libraries: Node.js, React.js, Next.js, Express.js, SwiftUI

Developer Tools: Git, Amazon Web Services, Agile development, Linux CLI, Xcode, Visual Studio Code, SSH

EXPERIENCE

iOS Engineering Co-op

Jan. 2023 – Present

Zipcar

Boston, MA

- Collaborated on agile team of 8 engineers to implement new features and fix bugs in the Zipcar iOS app
- Helped establish best practices for integration of modern SwiftUI into the codebase to reduce development time
- Won company-wide hack-a-thon and presented winning project to leadership team to further explore the idea
- Completed dozens of tickets from bugs to quarterly epics and reviewed pull requests of other engineers

Software Developer for CarpoolNU

Jan. 2023 – Present

Sandbox at Northeastern Club

Boston, MA

- Developed and implemented essential features using Typescript, tRPC, Prisma.js, MySQL, resulting in a powerful type-safe backend that facilitates seamless user connections, group requests, and user favoriting
- Iterated on an intuitive user interface, enabling users to join a carpool group and edit their profile page
- Played a key role in the team working towards delivering the final product to our client for summer 2023

Undergraduate Computer Science Teaching Assistant

Aug. 2022 – Dec. 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 by leaving informative comments
- Hosted 4+ office hours a week to provide direct 1 on 1 academic support to students

Retail Technical Associate

July 2019 – Aug. 2021

Staples, Inc

Acton, MA

- Elevated customer satisfaction by performing diagnostics on customer's faulty hardware
- Bolstered sales by pitching computers, printers, and chairs using basic up-selling techniques
- Maintained store by performing simple tasks such as tagging, cleaning, stocking, and contactless delivery

PROJECTS

Ada-2 | Node.js, Git, Discord.js, Bungie API, MySQL, AWS, Cron, Bash

October 2022 – November 2022

- Developed application using JavaScript, TypeScript, MySQL to improve experience of players in game Destiny 2
- Optimized personal npm package to interface with the Bungie API to make 1000+ requests in <5 minutes
- Deployed application to cloud to service 100+ guilds and 2000+ users
- Managed operations by triaging feature requests and bugs in public forum

Bungie.net Core | Node.js, TypeScript, Git, Bungie API, npm, OpenAPI v3.0

July 2022 – August 2022

- Repurposed open-source tool to automate TypeScript definition generation for the Bungie.net REST API
- Optimized npm package by reducing bundle size by 50%
- Compiled Node.js wrapper to simplify API calls and published to npm registry with 500+ weekly downloads
- Facilitates development of web apps through live updates to support new game systems in Destiny 2

Simple Image Processor | Java, JUnit 5, Git

May 2022 – June 2022

- Built image processor to perform algebraic manipulations on ppm, png, jpg files using MVC design pattern
- Collaborated with partner through daily meetings to draft, plan, program, test, and submit assignment
- Optimized time complexity for pixel manipulation to improve performance