Owen Simpson

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EDUCATION

Northeastern University   May 2025
Bachelor of Science in Computer Science   *Boston, MA*
- GPA: 3.94/4.00 | The John Martinson Honors Program | Dean's List

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, Swift, Java, Racket, HTML/CSS
Frameworks/Libraries: React.js, Django, SwiftUI, UIKit, Next.js, Express.js, Numpy, Pandas
Developer Tools: Git, Docker, AWS, GitHub Actions, Jupyter Notebook, Debian

EXPERIENCE

Software Engineer Co-op   January 2024 – June 2024
Klaviyo   *Boston, MA*
- Developed customer interfaces and automated tasks for a message review system using React and Python, enabling 100,000+ brands to segment customer consent and comply with SMS regulations like the TCPA
- Refactored permission services by separating all read/write operations, enabling FTC compliant role-based access
- Authored/reviewed system load test plans in order to mitigate risk with 3x volume over Black Friday weekend

iOS Engineer Co-op   January 2023 – August 2023
Zipcar   *Boston, MA*
- Led development and acted as the primary point of contact on native iOS team for the membership pausing feature, reducing membership cancellations by over 10%
- Migrated 25% of codebase from UIKit to SwiftUI while establishing best practices to create new features
- Prototyped new dynamic island feature and presented directly to leadership at hackathon, winning the grand prize
- Repaired previously broken automated testing suite, reducing QA time by catching bugs before creating builds

PROJECTS

Raid Hub Data Platform | *Golang, RabbitMQ, PostgreSQL, ClickHouse, Next.js*   February 2023 – Present
- Launch full-stack web app, data platform, and REST API for 1000+ daily users to view Destiny 2 raid stats
- Maintain 600GB relational database with over 1 billion entries, optimizing queries for <50ms execution time
- Implement advanced cloud caching features of Next.js and Cloudflare to enhance UX, reducing load times by 60%
- Manage suite of asynchronous tasks and batch jobs using Golang, RabbitMQ, cron to preserve data integrity

Destiny 2: Wrapped | *React, TailwindCSS, motion, OAuth*   December 2024
- Developed app providing over 100,000 unique players with personalized summaries of their 2024 in-game activities
- Designed responsive and animated interface with Tailwind CSS, encouraging thousands of screenshots to be shared
- Featured by 5+ major game journals, officially recognized and shared by the Destiny 2 social media accounts

Sydney Housing Market Evaluation | *Pandas, AWS SageMaker, Chalice*   July 2024 - August 2024
- Trained linear regression model on AWS SageMaker to predict monthly market prices in Sydney within $160
- Deployed interactive application to AWS Lambda, allowing locals to receive estimates based on 7 different factors
- Engineered a data cleaning script to standardize data format, successfully retaining 70% of rows initially discarded

CarpoolNU | *TypeScript, React.js, tRPC, MySQL, Prisma.js*   January 2023 – August 2023
- Delivered web app to Northeastern, helping 100+ students commute to co-ops inaccessible by public transit
- Iterated on intuitive user interface, enabling users to join a carpool group and edit their profile page using React.js
- Developed API to inferface with MySQL, facilitating 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+ profiles daily using cron jobs on AWS Lambdas
- Managed operations by triaging feature requests and bugs in public forum