

Lawrence Qupty

lawrence-qupty.web.app | [LinkedIn](#) | [GitHub](#) | Lawrencequp@gmail.com | 331-903-2263

Experience

Independent Contractor

May 2023 – Aug 2023

Udundi

Remote

- Was responsible for building Shopify web and mobile storefronts for 3 clients, implementing critical features such as advanced search functionality, contributing to the improvement of \$26 million in combined sales revenue
- Used multiple web frameworks and tools across different clients including Node.js, Svelte, Vue.js, and GraphQL
- Gained experience in the relationship between fellow developers, designers, clients, and management

Software Engineer

June 2022 – Mar 2023

Vision

Seattle, WA

- Architected and engineered a decentralized platform for organization in a startup of 8 members as one of the principal developers; think Kickstarter but with cryptocurrency
- Helped build the "Vision OS" allowing users to add plugins to the platform in a secure way, increasing development speeds and allowing Vision to become a viable product due to high extensibility and modularity
- Implemented the platform's UI in Typescript, React, and TailwindCSS allowing quick deployment, and used Rust for the Vision OS critically increasing the platform's performance
- Learned to quickly iterate on and learn many different technologies in a blindingly-fast startup environment

Student Researcher

Sept 2021 – June 2022

University of Washington Najafian Lab

Seattle, WA

- Met with lab members on a weekly basis to learn about building machine-learning models to detect kidney diseases
- Developed a web app to interface with the lab's ML models using JavaScript, React, and React Bootstrap

Education

University of Washington

Seattle, Washington

Bachelor of Science in Computer Science (Magna Cum Laude)

3.94 GPA

- Coursework on highly scalable distributed and database management systems
- Focused on building mathematically rigorous yet highly practical software

Projects

Husky Navigation Services: *Java, Azure, JavaScript, HTML, CSS, Git*

[Repository](#)

- **Husky Navigation:** A prototype web application for navigation at the University of Washington campus with interactive UI and REST API backend. Enables shortest-route calculation between buildings and key campus points in a modular and highly scalable way
- **Husky Navigation Content:** Tools that allow users to easily modify and develop mapping data, allowing crowd-sourced mapping localized. Used mapping libraries like Leaflet.js
- **Husky Pack:** Hackathon project for a mobile interface for social media-like experience to a campus-based crowd-sourcing marketplace. Integrated with the Husky Navigation local mapping service to allow students to request to have things like food delivered to them

FitSocial: *React Native, Rust, Git, Rocket, Expo, CSS, Git*

[Repository](#)

- Designed a React Native frontend and Rust backend social media app with fitness tracking capabilities
- Leveraged continuous integration on GitHub via GitHub Actions to automatically test and deploy the application
- Guided and taught my 4 other teammates Rust, React, and Typescript and lead the project using agile methodologies to 3x development speed and deliver a finished project

DSLabs: *Java, Git*

- Developed a sharded distributed KV store allowing for high-throughput ACID transactions
- Implemented distributed algorithms like primary-backup and Paxos providing fault-tolerance

Skills

Languages : Rust, Java, Python, Javascript, Typescript, C/C++

Technologies : React, Node, [Rocket](#), React Native, SQL, GraphQL, Pandas, PyTorch

Dev Tools : Linux, Git, Emacs, Vim, Gitlab/Github, Docker, shell scripting