

Profile Summary

- Software Engineer experienced in building and deploying full-stack solutions. Well-versed in Object-Oriented Programming (OOP) and Data Structures & Algorithms.
- Full-stack developer with a strong command of programming languages including JavaScript, Java, Swift & R.
- Proficient in designing UIs with React, writing server-side code and building APIs, and manipulating SQL & NoSQL databases. Solid understanding of Authentication, Security, and version control.

Education

University of Washington

B.Sc. in Informatics

Seattle, WA, 2019-2023 (expected), GPA: 3.8/4.0

Honors/Awards: Annual Dean's List (2020-2022)

Languages

English: Fluent Chinese: Native

Technical skills

Languages: JavaScript, Java, Swift, R, HTML, CSS

JavaScript stack: Superset: TypeScript / **FE Framework:** React, jQuery / **Back-end:** Node.js, Express.js / **Automation:** Puppeteer, Playwright

Databases: Azure SQL Server, MongoDB, Firebase

Dev Tools: Git, Postman, Linux, Docker, R Studio, Mongoose, tidyR, Figma

Professional Experience

NetPrism *Co-Founder & Software Engineer*

Seattle, WA Jun. 2022 - Present

- Co-founded a software startup enabling users to make intelligent data-driven decisions thanks to a data analytics and processing platform. Ideated and conceptualized the product and owned the full software development lifecycle, implementing with TypeScript and associated web technologies.
- Evaluated technical requirements and researched adequate technologies, analyzing benefits and drawbacks in terms of scalability and sustainability and aiming at avoiding future technical debt.
- Built a Node.js RESTful API server to extract, analyze and process data readily available online.
- Utilized NetPrism API to develop a mobile application called "Restock Alerts" which allows users to monitor any online retailer's inventory and product cost.
- Released "Restock Alerts" on both Android and Apple app platforms, reaching 5k registered users and achieving an average rating of 4.85 out of 5 stars. The app monitors over 10k unique items across 20 different retailers to date.
- Maintain up-to-date knowledge of web & mobile technologies and best practices and monitor industry & competitive trends.

Projects Experience

PetMeet

Mar. 2022 - Jun. 2022

- Designed and developed an iOS application for pet owners to find friends for their pets, utilizing SwiftUI, UIKit and Storyboard to create a modern user interface.
- Decided on requirements and specifications and documented architecture, features, and technologies in a clear and concise design document allowing for faster and easier implementation.
- Built the backend with Firebase as the ideal solution for image and data persistence.

TypeScript Compiler Architecture Analysis

Dec. 2021 - Mar. 2022

- Conducted a detailed component-level architecture analysis of the TypeScript compiler from multiple viewpoints.
- Identified styles and patterns used by the code base, assessed the architectural quality and identified architectural flaws to perform system improvements by refactoring code.

Goal Husky!

Mar. 2021 - Jun. 2021

- Managed a team of 4 and delivered a responsive web app using JavaScript and React, aiming at helping University of Washington students in finding like-minded people to accomplish different sets of goals, increasing their productivity.
- Developed an engaging user experience by delivering an aesthetically pleasing user interface built with HTML, CSS, and JavaScript, allowing students to view and interact with others' goals and contribute with data stored in Firebase.
- Worked closely with fellow developers to build the project by planning and dividing tasks effectively and by maintaining close communication during implementation to support each other and remove roadblocks.

Vade

Dec. 2020 - May. 2022

- Delivered a multi-purpose Discord Bot to bring additional functionalities to the platform by offering features such as automated server moderation, an advanced music playlist system, and alternative bot interactions for users with disability and impairments. Used TypeScript/JavaScript, Node.JS, MongoDB, Linux, and Git and reached 300k total users within five months of launch.