Henry **Bao**

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Education

University of Washington   *Seattle, WA*
B.S. in Informatics   *2019 Fall - 2023 Summer*
- GPA: 3.8/4.0
- Annual Dean's List (2020-2021): Awarded to undergraduate students with outstanding scholarship and dedication to their studies

Experience

NetPrism   *Seattle, WA*
Co-Founder   *2022 Summer - Present*
- The company aimed to empower end-users to make intelligent data-driven decisions.
- Implemented a Node.js RESTful API server that targets businesses and enterprises that need mass data gathering and analysis of online data, such as retailer data, product price trends, etc.
- Utilized NetPrism API to develop a mobile application that monitors any online retail products' inventory information and notifies our customers when a product is back in stock. It also tracks a product's price and notifies customers when its price drops.
- Launched Restock Alerts on both Android and Apple platforms, monitored over 10k unique items, and it is ranked 7 on Mac App Store during launch week.

Projects

PetMeet
School Project   *2022 Spring - 2022 Summer*
- An iOS application designed for pet owners to effectively find friends for their pets online.
- Utilized SwiftUI, UIKit and Storyboard to declare a modern user interfaces for end-users.
- Incorporated Firebase as back-end solution for image and data persistence.

TypeScript Compiler Architecture Analysis
School Project   *2022 Winter - 2022 Spring*
- A detailed component-level architecture analysis of the TypeScript compiler from multiple viewpoints.
- Identified styles and patterns used by the code base, and assessed the architectural quality in terms of established principles.
- Determined architectural flaws in the existing code structure and made system improvements by applying code refactoring accordingly.

Goal Husky!
School Project   *2021 Spring - 2021 Summer*
- Collaborated with a team of four to built a responsive web app using the React web framework.
- The website allows users to view and interact with goals that other people have published and provides data persistence through Firebase for any additional goal sharing.
- Designed to help students at the University of Washington to find like-minded people to accomplish different sets of goals and increase productivity during the pandemic.

Vade
Lead Developer   *2020 Winter - 2022 Spring*
- A multi-purpose Discord Bot aimed to elevate the user experience on the platform by offering features such as automated server moderation, advanced music playlist system, and alternative bot interactions for users with disability and impairment.
- Gathered over 300k total users across more than 1000 different communities within five months of launch.
- Brought in advertisement sponsorship to fund the project and provided features that were usually behind a paywall on other competitors.
- Tech stack used includes TypeScript/JavaScript, Node.JS, MongoDB, Linux, and Git.

Skills

Programming	Java, JavaScript/TypeScript, Swift, HTML/CSS, R
Frameworks	Bootstrap, Puppeteer, Playwright, Mongoose, jQuery, React.JS, ggplot2, tidyr
Tools	Linux, Git, Docker, Figma, MongoDB, Azure SQL Server, Firebase, R Studio