

# HENRY BAO

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## EXPERIENCE

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### NetPrism

Jun 2022 — Present

#### *Software Engineer*

- Spearheaded a software startup that provides a user-friendly analytics platform to over 10,000 users, facilitating intelligent, data-driven decisions. Took full responsibility for product ideation, conceptualization, and the entire software development lifecycle.
- Evaluated technical requirements and selected the most suitable technologies, balancing scalability, sustainability, and the minimization of future technical debt.
- Developed a RESTful API that interfaces with horizontally scalable web scrapers and parsers, designed for the extraction, analysis, and processing of over 1TB of e-commerce and online retailer data monthly.
- Streamlined the Restock Alerts mobile app by integrating it with the newly created NetPrism API, which consequently increased the speed of e-commerce product information updates by 10 times.
- Implemented CI/CD pipelines to optimize platform build, test, and deployment processes, improving release speed and reliability.
- Achieved a 50% reduction in infrastructure costs by effectively self-managing services such as GitLab, Bitwarden, and web applications.

### University of Washington

March 2023 — Present

#### *Teaching Assistant for Client-Side Development*

- Conducted weekly class sessions on a diverse range of web development topics, such as React.js, HTML/CSS, and Firebase.
- Addressed and resolved student inquiries related to course content and logistics in a timely and efficient manner.
- Guided and supported 9 project groups throughout the quarter, fostering collaboration and ensuring successful completion of assignments.

## PROJECTS

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### 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.

### Goal Husky!

Mar 2021 — Jun 2021

- Managed a team of 4 and delivered a responsive web app using JavaScript and React, aiming to increase productivity and social networking among UW students during remote living mode.
- Designed a user-friendly interface with a card deck overview of goals posted, sorted by categories and searchable by keywords.

### Vade

Dec 2020 — May 2022

- Delivered a multi-purpose Discord Bot to bring additional functionalities to the platform such as automated server moderation, an advanced music playlist system, and alternative bot interactions for users with disability and impairments.
- Amassed over 300k total users across more than 1000 different communities within 5 months of launch.

## EDUCATION

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### University of Washington

Sep 2019 — Jun 2023

#### *B.Sc. in Informatics*

- GPA: 3.8/4.0
- Honors/Awards: Annual Dean's List (2020-2022)

### Cornell University

Aug 2023 — May 2025

#### *M.Sc. in Applied Information Science & Information Systems*

- Incoming Graduate Student

## SKILLS

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- **Languages:** Java, Javascript/TypeScript, Swift, Golang
- **JavaScript Stack:** React, Express, Puppeteer/Playwright
- **Databases:** Azure SQL, MySQL, PostgreSQL, MongoDB, Firebase
- **Tools:** Postman, Git, Linux, Docker, GitLab CI, Figma