

HENRY BAO

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EDUCATION

Cornell University

Master of Science in Computer and Information Science & Information Systems (Dual Degree)

Aug 2023 - May 2025

New York, NY

University of Washington

Bachelor of Science in Informatics, GPA:3.83/4.00

Sept 2019 - Jun 2023

Seattle, WA

Honors: Cum Laude, Dean's List Recipient (2020 - 2023)

WORK EXPERIENCE

NetPrism Inc.

Founding Software Engineer & Platform Engineer

Jun 2022 - Oct 2023

Seattle, WA

- Led a startup specializing in user-friendly buyer intelligence application development, with the flagship app, Restock Alerts, a tool for providing real-time stock availability notifications, garnered a user base of **10,000+** across various platforms.
- Architected and implemented a RESTful API with horizontally scalable web scrapers and parsers to manage over **1TB** of e-commerce data on a monthly basis.
- Enhanced the system with server-side load balancing, asynchronous processing, and priority task queuing, streamlining data extraction, analysis, and processing for **20+** major online retailers.
- Reduced infrastructure costs by **50%** via self-managed open-source services such as a WireGuard overlay network for internal microservice communication, GitLab, and Bitwarden.
- Elevated company valuation to **\$4MM+** by raising pre-seed funding from MiraclePlus (formerly YC China).

University of Washington

Teaching Assistant

Mar 2023 - Jun 2023

Seattle, WA

- Lectured weekly interactive web development sessions, engaging in discussions, hands-on coding example, and real-time problem-solving for **30+** students in React.js, HTML/CSS, and Firebase.
- Mentored **9** project groups through code reviews, iterative project design feedback, and the application of Agile methodologies, resulting in **90%** of projects receiving above-average evaluations.

PROJECTS

HomeLab (Self-Hosting)

Mar 2022 - Present

- Engineered and managed a home server using Ubuntu to host personal portfolios, file/photo cloud drives, and Plex media services, integrated with a Synology NAS system for centralized, secure file sharing and automated backups.
- Ensured reliable and scalable orchestration of 20+ diverse applications leveraging Docker containerization.
- Implemented Zero Trust security architecture with Cloudflare DNS for beyond-LAN authentication and remote access.
- Participated in self-hosting and open-source communities such as r/SelfHosted, exchanging insights and skills in network management, cybersecurity, and system administration relevant to modern software development practices.

[AimLabBasic](#)

Jan 2023 - Mar 2023

- Developed a full-stack interactive minigame in a web browser to improve users' mouse agility and accuracy.
- Integrated gameplay analytics to track and improve user performance over time.
- Enabled robust server-client communication and dynamic content updates with an Express.js RESTful API backend.

[PetMeet](#)

Mar 2022 - Jun 2022

- Spearheaded a 5-member team in developing a Tinder-like iOS application for pet owners to find friends for their pets, utilizing SwiftUI, UIKit and Storyboard to create a modern user interface.
- Enabled efficient data management by integrating Firebase, ensuring a robust and scalable backend for user and image data.

[Vade](#)

Dec 2020 - May 2022

- Developed a Discord bot with automated server moderation and an advanced music playlist system, integrating reaction-to-command functionality to enhance accessibility for users with visual and auditory impairments.
- Engaged with 1,000+ diverse communities through direct outreach and word-of-mouth on Discord, resulting in a user base growth to 300,000 users within 5 months of launch.

SKILLS

Languages: JavaScript, TypeScript, Java, Swift, Python, Golang, SQL, HTML/CSS

Frameworks/Libraries: React, Next.js, Tailwind CSS, Bootstrap, jQuery, Express, Puppeteer, Playwright

Tools/Technologies: MySQL, PostgreSQL, MongoDB, Firebase, DNS, Nginx, Zero Trust, Postman, Linux, Docker, GitLab CI