

HENRY BAO

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EDUCATION

Cornell Tech, Cornell University <i>Master of Science in Computer and Information Science & Information Systems (Dual Degree)</i>	Aug 2023 - May 2025 (Expected) <i>New York, NY</i>
University of Washington <i>Bachelor of Science in Informatics, GPA: 3.83/4.00</i> Honors: Cum Laude, Dean's List Recipient (2020 - 2023)	Sept 2019 - Jun 2023 <i>Seattle, WA</i>

WORK EXPERIENCE

NetPrism Inc. <i>Software Engineer & Co-Founder</i>	Jun 2022 - Oct 2023 <i>Seattle, WA</i>
<ul style="list-style-type: none">Led a startup specializing in user-friendly buyer intelligence application development, with the flagship app, Restock Alerts, attracting 10,000+ users across mobile apps and browser extensions.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.Optimized development workflows utilizing Docker-based CI/CD pipelines for platform build, test, and deployment, replacing manual sprint deployments with an automated approach.Reduced infrastructure costs by 50% via self-managed open-source services such as a WireGuard overlay network for internal microservice communication, GitLab, and Bitwarden.Spearheaded Agile Software Development Life Cycle (SDLC) initiatives, resulting in the on-time launch of 3 major product features, in collaboration with designer and engineer.Elevated company valuation to \$4MM+ by raising pre-seed funding from MiraclePlus (formerly YC China).	
University of Washington <i>Teaching Assistant</i>	Mar 2023 - Jun 2023 <i>Seattle, WA</i>
<ul style="list-style-type: none">Led 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
<ul style="list-style-type: none">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.	
<u>AimLabBasic</u>	Jan 2023 - Mar 2023
<ul style="list-style-type: none">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.Organized codebase using the Model-View-Controller (MVC) pattern, streamlining feature integration and debugging.Enabled robust server-client communication and dynamic content updates with an Express.js RESTful API backend.	
<u>Vade</u>	Dec 2020 - May 2022
<ul style="list-style-type: none">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