HENRY BAO

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EDUCATION

Cornell Tech, Cornell University   **Aug 2023 - May 2025 (Expected)**
Master of Science in Computer and Information Science & Information Systems (Dual Degree)   *New York, NY*

University of Washington   **Sept 2019 - Jun 2023**
Bachelor of Science in Informatics, GPA:3.83/4.00   *Seattle, WA*
Honors: Cum Laude, Dean's List Recipient (2020 - 2023)

WORK EXPERIENCE

NetPrism Inc.   **Jun 2022 - Oct 2023**
Software Engineer & Co-Founder   *Seattle, WA*
- 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   **Mar 2023 - Jun 2023**
Teaching Assistant   *Seattle, WA*
- 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**
- 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.
- 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.

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