Lin Hong

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10× Hackathon Winner · Software Engineer · Product Development

EDUCATION

University of Waterloo   Sept 2025 – Apr 2029
Bachelor of Computer Science (Co-op)
- President's Scholarship of Distinction, Ted Rogers Future Leaders Scholarship for Women
- Relevant coursework: Intro to CS, Algorithm Design, Data Abstraction, Calculus 1 & 2

SKILLS

Languages: Python, Go, Java, C++, JavaScript, TypeScript, Bash, PHP, HTML/CSS, Tailwind
Technologies: Git, Next.js, React, Flask, FastAPI, Docker, AWS, PostgreSQL, MongoDB, Nginx, Pytorch

EXPERIENCE

Walnote AI   July 2025 – Present
Founding Engineer   *Toronto, ON*
- Shipped **10+** full-stack features using **Python**, **FastAPI**, and React, reducing user onboarding flow time by **30%** and increasing weekly active sessions by ∼**25%**.
- Designed and optimized **backend APIs** and data pipelines on **PostgreSQL** and **Redis**, cutting p95 request latency by **40%** and eliminating multiple production timeouts.
- Improved release reliability by **introducing CI/CD** with **GitHub Actions** and code review checklists, driving a noticeable drop in post-release bug reports from teammates.

Linovation Design   Summer 2024
Full Stack Developer   *Toronto, ON*
- Designed and launched **8** production marketing sites using **Next.js**, **React**, **TypeScript**, and Tailwind, taking client projects from requirements gathering to live deployment.
- Built **Flask** APIs with JWT authentication and database integrations; deployed with **Docker**, Vercel, and MongoDB, cutting manual content-update work for clients by ∼**50%**.

PROJECTS

Spotilike | *Flask, Next.js, Tailwind, TensorFlow, DeepFace*   June 2025
- Created an AI-driven music discovery platform that matches songs to user emotions in real time using **Python**, **TensorFlow**, and **DeepFace**, evaluated with **50+** user test sessions.
- Integrated **Flask** backend with **Next.js** frontend, **Spotify API**, and MongoDB schemas linking emotion embeddings to music metadata, increasing relevant recommendation click-through in testing.

Lofied | *Python, torchaudio, Pedalboard*   May 2025
- Developed a **Python** tool converting Spotify playlists to lo-fi tracks using DSP and Spotify API, automating processing of **dozens** of songs per run with minimal manual steps.
- Won Best Solo Hack & Top 6 Overall at JamHacks 2025 out of **200+** hackers, demonstrating end-to-end product development from design to deployment.

Flaim Brain | *Flask, LangChain, MongoDB*   Jan 2024
- Implemented an AI mentor enabling file uploads, note summarization, and personalized study guides using **Python**, GPT-4, Cloud Vision, and MongoDB Atlas Vector Search, cutting manual study-note prep time by ∼**50%** in trials.
- Placed 4th at Hack the Valley 8 among **80** teams, showcasing collaborative problem-solving and rapid prototyping skills.

HomeLab | *Linux, Docker, Nginx, Cloudflare*   May 2025 – Present
- Built a personal Linux server secured with SSH key-pair authentication and HTTPS reverse proxying using **Nginx**, running **3+** self-hosted services with >**99%** uptime over several months.
- Deployed **Dockerized** Node.js applications with PM2 process management and Cloudflare DNS/routing, turning multi-hour manual deploys into minute-level updates.