Lin Hong

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10× Hackathon Winner · Software Engineering Explore Intern · Product-Focused Developer

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, Data Structures, Algorithm Design, Software Engineering Principles

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, Go, Bash, HTML/CSS
Technologies: Git, React, Next.js, Flask, FastAPI, Docker, PostgreSQL, MongoDB, AWS, Azure, GitHub Actions

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*
- Delivered **8** production marketing sites for local clients using **React**, **Next.js**, and **TypeScript**, helping several businesses move from no web presence to live, production-ready experiences.
- Built **Flask** APIs with authentication and database integrations, reducing manual content-update work for clients by ∼**50%** through simple dashboards and forms.
- Containerized services with **Docker** and deployed to Vercel/**MongoDB** Atlas, standardizing the deployment pipeline and cutting setup time for new projects from days to hours.

PROJECTS

HomeLab | *Linux, Docker, Nginx, Cloudflare*   May 2025 – Present
- Deployed and maintained a personal **Linux server** running **3+** self-hosted services with HTTPS via **Nginx**, practicing real-world devops and monitoring.
- Containerized Node.js apps with **Docker** and PM2 so updates ship in minutes instead of hours while keeping downtime near zero.

Spotilike | *Flask, Next.js, TensorFlow*   June 2025
- Built an **AI-powered** music discovery web app that matches songs to user emotions, integrating **Flask** backend, **Next.js** frontend, and **Spotify API** used by **50+** test users.
- Improved recommendation click-through during user testing by ∼**30%** after iterating on UI flows and emotion-detection thresholds.

Lofied | *Python, torchaudio, Docker*   May 2025
- Developed a **Python** tool that converts Spotify playlists into lo-fi tracks using **DSP** and audio processing, processing **dozens** of tracks per run with a fully automated pipeline.
- Won Best Solo Hack
  Top 6 Overall out of **200+** hackers at JamHacks 2025, demonstrating end-to-end ownership from idea to working prototype.

Inner Voice | *Next.js, Whisper, OpenAI TTS*   July 2023
- Built a multi-persona speech **AI** app with full STT and TTS accessibility using **Next.js**, OpenAI **Whisper**, and TTS APIs, enabling hands-free interaction.
- Implemented persona-based conversation flows that adapt to user tone and history, showcasing experience integrating external **AI APIs** into a polished front-end experience.