Lin Hong

linlin.hong1@gmail.com | github.com/LinHong149 | linkedin.com/in/linhongdev | linhong.dev

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

Chess Bot | *PyTorch, Modal, **Python***   June 2025

- Built an AlphaZero-style **reinforcement learning** chess engine with a unified policy–value network in **PyTorch**, running large-scale self-play on cloud GPUs via Modal.
- Reached ∼**1600 Elo** strength against classical engines through iterative training and automated evaluation, after integrating Monte Carlo Tree Search with neural priors.

Spotilike | *Flask, Next.js, TensorFlow*   June 2025

- Created an **AI-powered** music discovery web app that maps real-time emotion signals to tracks, integrating **Flask** backend, **Next.js** frontend, and **Spotify API**.
- Collaborated with teammates to iterate on UI flows and recommendation logic, improving engagement metrics such as song skip rate in user testing.

Skip the Walk | *Terraform, Commander.js, Slack API*   Sept 2024

- Built a CLI tool in **Node.js**/Commander.js to automate Domino's pizza ordering and volunteer routing for Hack the North, saving organizers hours of manual coordination.
- Integrated **Terraform** and Slack API to provision workflows and send real-time updates, winning **Best Use of Terraform** out of dozens of submitted projects.

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.