Lin Hong

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EDUCATION

University of Waterloo   *Bachelor's of Software Engineering (Co-op), 2025 - 2030*

TECHNICAL EXPERIENCES

[FIRST Tech Challenge Robotics Team](#) 🔗 | *Founder, Captain, and Lead Programmer*   *Sept 2022 - Present*

- **Led the mechanical design process**, creating 6 versions of 3D robot design [CAD models](#) using Onshape.
- Implemented **AI/ML object detection, vision-based localization, and autonomous navigation systems** using Java, increasing autonomous consistency by **70%**.
- Led a team of **15 dedicated rookies**, advancing to the **Ontario Provincial Championships** every year, and representing Canada at the **World Championships** held in Houston, Texas.

Hackathons | *Organizer, Volunteer, and Participant*   *Sept 2020 - Present*

- Attended over **20 hackathons**, notability winning at **Hack the North 2024**.
- **Organized 6 hackathons**, founding my school's annual hackathon with 50 participants and Geesehacks 2024; a University of Waterloo hackathon with **300 participants**.

ENTREPRENEURIAL EXPERIENCES

[Linovation Design](#) 🔗 | *Startup Founder*   *June 2024 - August 2024*

- Established a web design and ERP services business, **generating $2,300 profit** within two months.
- Conducted **weekly in-person pitches to local businesses**, fostering strong client relationships.
- Improved operational efficiency for a local business by **10% through custom ERP integration and workflow automation**.

PROJECTS

[Skip the Walk](#) 🔗 | *Hack the North 2024 Winning Project*   *June 2024 - August 2024*

- Developed a **command-line interface using Commander.js** that automated Domino's pizza orders via **Terraform**, achieving a **50%** more efficient food ordering and delivery process.
- **Integrated MappedIn for real-time volunteer navigation**, reducing delivery time by **30%**.

[Ingredify](#) 🔗 | *MetHacks 2023 Winning Project*   *June 2024 - August 2024*

- Built a mobile app using React Native, Node.js, and MongoDB to extract and analyze nutrition facts from food labels with **AI-powered OCR (Tesseract) and Cohere AI.**
- Developed health tracking features for food logging and allergen detection, achieving an **80% improvement in speed** over conventional food tracking methods.

ADDITIONAL INFORMATION

- **Competitive awards**: FTC Internationals, FTC Dean's List Leadership Award Semi-Finalist, Hack the North Winner
- **Technical Skills**: Git, AI implementation, REST APIs, Databases, Vision Systems, App Development, Backend Tools
- **Soft Skills**: Problem Solver, Leader, Rational Analyzer
- **Hobbies:** Baking, 3D modeling and printing, Reading