

Yingxuan (Alvin) Hu

✉ y472hu@uwaterloo.ca • 🌐 yingxuanhu.github.io/personal/ • in yingxuan-hu

Education

University of Waterloo - David R. Cheriton School of Computer Science

Waterloo, ON

Bachelor of Computer Science (CO-OP, double degree program)

Aug 2020–Aug 2025

- Relevant coursework: Algorithms, Object-Oriented Programming, OS, App Development, Computer Networks etc.

Wilfrid Laurier University - Lazaridis School of Business and Economics

Waterloo, ON

Bachelor of Business Administration, Finance (CO-OP, double degree program)

Aug 2020–Aug 2025

- Relevant coursework: Macro and Microeconomics, Investment Management, Business Strategy etc.

Work Experience

Ericsson

Ottawa, ON

Software Developer, Radio

Jan 2025–Aug 2025

- Developed an ML-based anomaly detection platform for Ericsson's Radio, enabling rapid identification of issues in radio logs.
- Assisted in both frontend (using React) and backend (Python) development; created JSON parsers capable of processing 100+ log files.
- Contributed to generating results from GNN and LSTM models and developed a tool to analyze outputs from multiple models, providing clients with a sophisticated and comprehensive final result.
- Conducted unit and automated testing, as well as software/hardware integration testing in a lab environment, ensuring smooth integration with Ericsson's troubleshooting platform and CI/CD infrastructure.

OMERS

Toronto, ON

Solution Engineer, ServiceNow

Jan 2023–Apr 2023

- Resolved multiple enterprise-level issues using Java and JavaScript, improving system performance and user interface.
- Developed and maintained ServiceNow elements such as workflows, business rules, UI policies, and client scripts.
- Developed, tested, and published 30+ ServiceNow applications, thereby deepening SDLC expertise.

CHANGTONG Communication Data Co.

Shenyang, China

Full-stack Developer

Jul 2021–Sep 2021

- Successfully delivered a municipal COVID-testing system platform project as part of a team, utilizing C++, HTML, and CSS.
- Redesigned and consolidated over 10 website interfaces to align with current marketing standards and user expectations.
- Designed and managed multiple databases; wrote optimized SQL queries to retrieve data efficiently.

Projects/Extracurricular Activities

Dream Weaver App UX Design (HCI)

Waterloo, ON

Team Member

Apr 2024–Aug 2024

- Designed a high-fidelity prototype of an AI-driven mobile app for dream visualization and analysis using Figma.
- Conducted a cognitive walkthrough to assess usability and refine user flow and interaction design.
- Created detailed interactive mockups for core features, including Dream Recording, Dream Interpretation, and user interaction.

Application Development

Waterloo, ON

Team Member

Jan 2024–Apr 2024

- Developed an Android application as part of a team using Kotlin, Jetpack, and Git workflows; the app serves as a dating platform for Waterloo students.
- Created multiple user interfaces and integrated them with the backend to enhance the user experience.
- Utilized Google Firebase to store user data and implemented an efficient algorithm to match users based on their profile preferences.

Sales/ROI Forecasting and Visualization

Brantford, ON

Employee

Sept 2023–Dec 2023

- Developed a comprehensive sales forecasting tool with automated data pipelines to refresh sales using Python, pandas, Prophet, and ARIMA models to predict future sales trends for 100+ product SKUs.
- Developed an effective algorithm to clean sales data to ensure accurate input for model training, also designed an interactive interface to provide better visualization for clients.