

Yingxuan (Alvin) Hu

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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, Linux, Optimization etc.

Wilfrid Laurier University - Lazaridis School of Business and Economics

Waterloo, ON

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

Aug 2020–Aug 2025

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

Work Experience

ICON Office Environment

Brantford, ON

Data/Product Analyst

Sept 2023–Dec 2023

- Developed a data analysis program using Python, with libraries such as Pandas, Numpy and Matplotlib. Provided insightful past sales data analysis and visual graph representations for each product.
- Programmed reusable tools for future sales projections using company-specific algorithms with Python and SQL.
- Set up government supply arrangement for the company, also achieving ISO9001/14001 certification
- Composed new business plan and standard operating procedures, demonstrated management skills.

OMERS

Toronto, ON

ServiceNow Developer

Jan 2023–Apr 2023

- Resolved multiple enterprise-level issues using Java and JavaScript, enhancing system performance and UI.
- Developed and maintained ServiceNow elements like workflows, business rules, UI policies, and client scripts.
- Performed developing/testing/publishing of ServiceNow applications, familiarized with SDLC.

CHANGTONG Communication Data Co.

Shenyang, China

Full-stack Developer

Jul 2021–Sep 2021

- Successfully delivered a municipal COVID-testing system platform project with C++, HTML, CSS as a team.
- Updated and maintained 10+ website interface to align with current marketing standards and user expectations.
- Participated in team code reviews and debugging to provide constructive feedback to team members.

Projects/Extracurricular Activities

Application Development

Waterloo, ON

Team member

Jan 2024–Apr 2024

- Developed an Android application with a team using Kotlin JetPack and Git workflows; the app is a dating platform for Waterloo students.
- Created multiple user interfaces and integrated them with the backend to enhance user experience
- Used Google Firebase to store user data and matched users with others' profiles based on their preferences using our efficient algorithm.

IBM Machine Learning Professional Certificate

Coursera

Student

Sept 2023–Dec 2023

- Completed IBM's ML course covering ML fundamentals. Including regression, decision trees, and neural networks.
- Gained proficiency in Jupyter, using libraries like Pandas and Scikit-learn for data analysis and model building.
- Applied ML to real-world scenarios, involving data processing, model training and analysis.

Compiler Development for WLP4(Simplified C++)

Waterloo, ON

Team member

Apr 2023–Aug 2023

- Built a compiler for WLP4, encompassing lexical analysis, syntax parsing, and semantic validation with DFA and custom parsing algorithms
- Implemented functions like code generation, linking and loading, converts WLP4 to Assembly language (MIPS).

Monopoly Coding Project

Waterloo, ON

Team member

Dec 2022–Apr 2023

- Created a monopoly game with C++ in a team of two, efficiently using the features in OOP
- Implemented polymorphism by defining method in a base class like "Location", that its subclasses such as "Jail", "Property", "Chance" etc. will handle different actions.
- Utilized Encapsulation feature to declare critical game data as private within their respective classes, Manipulate these data only through public methods like "payRent" to ensure changes follow the game rules.