

Jason Hon

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EDUCATION

University of Waterloo

2023 - 2027

Bachelor of Computer Science, Artificial Intelligence Specialization

Waterloo, ON

- **GPA: 3.96 / 4.0 (CAV: 92.44%, Candidate for Deans Honours)**
- Relevant Coursework: Data Structures, Object Oriented Programming, Compilers, Elementary Algorithms
- Honours: CS Intl. Upper Year Scholarship, Presidential Scholarship of Distinction (Totalled CAD\$ 8,000)

SKILLS

Languages C / C++ | Java | Python | JavaScript / TypeScript | SQL | HTML / CSS | Scala

Frameworks React | NodeJS | AngularJS | NextJS | Flask | Express | Tailwind

Technologies AWS | MongoDB | MySQL | Nginx | Docker | Git | Unix | Bash | Valgrind

EXPERIENCE

Huawei Canada

Jan 2025 - Apr 2025

Incoming Software Engineering Intern - Compiler

Markham, ON

UW Computer Science Club

Sept 2024 - Present

Software Developer

Waterloo, ON

- Developed and maintained CodeyBot, a multi-functional Discord bot, utilizing **TypeScript**, **Docker**, **SQLite**, **Discord.js**, and **Sapphire**, to deliver features such as coffee chat matching, and mock interview scheduling
- Collaborated with a **team of 11** to review code and brainstorm innovative features, successfully deploying Codey-Bot to a server with **over 4,500 members**, implementing various minigames and auto-mod features

Bonumcare

June 2023 - Aug 2023

Freelance Software Developer

Remote

- Engineered a "Conversation Buddy" for the elderly using an **Express** server on **AWS EC2**, deployed with **Nginx**, facilitating **over 300** message transactions daily through robust RESTful APIs.
- Redesigned the interactive chatbot user interface using **React**, **HTML**, and **CSS**, receiving positive feedback from 90% of elderly users.

NOTABLE PROJECTS

Lacs Compiler

Sept 2024 - Present

- Built a compiler and assembler for a **Scala**-type language with **context-free language parsing**, **analysis** and memory management features like **heap allocation** and **garbage collection**
- Implemented statically scoped nested procedures with **closure operations** to support object-oriented & functional programming, enhancing it with **tail call detection and optimizations**

UWCompass

Aug 2024 - Present

- Developed a **React** web application to parse student transcripts to identify required courses for degree completion, easing the course planning process for Waterloo students
- Leveraged **BeautifulSoup** to scrape and store **over 5000** courses and programs, using dynamic JSON handling to efficiently manage and enhance the scalability of academic program databases.

Chess Engine

Jun 2024 - Aug 2024

Project Lead

- Developed a Chess engine in **C++** featuring various levels of **AI opponents**, using an algorithm that evaluate moves based on piece weights and other factors for complex decision-making
- Strictly adhered to **OOP** principles and advanced design patterns (MVC, Observer, Factory) to create a structured and maintainable codebase, ensuring high cohesion and low coupling.

SLMod

May 2021 - Dec 2023

Project Lead

- Maintained and developed a portable **Java** game modification used by **over 40** daily users at peak, implementing changes accordingly based on user feedback.
- Led a **team of 5** to develop a user-tracking system on a **Flask** server on **AWS EC2** with data stored in **MongoDB**; displayed and processed **over 6,800** user log-ins on an online dashboard, implementing **OAuth2** via Discord API

VOLUNTEERING AND LEADERSHIP

UW Chinese Student Association, Marketing Executive

May 2024 - Present

Sunshine Action Club, Volunteer and Human Resource Manager

Sept 2022 - May 2023

Content Creator, YouTube (20,000+ subscribers, 3,000,000+ Views)

Sept 2021 - May 2023