Yifan Hao

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EDUCATION

University of British Columbia GPA: 4.0/4.0 (96%)
BSc in Computer Science and Statistics; Co-op program; CS Tri-Mentoring *Expected Grad: May 2025*

EXPERIENCE

Software Developer Sept. 2023 – Present
UBC Launchpad *Vancouver, BC*
- Developing internal tools to enhance team organization and knowledge management with **TypeScript** and **AWS**

Full Stack Developer Intern Jan. 2023 – Aug. 2023
Verto Health *Toronto, ON*
- Developed **data pipeline** in **Ruby** and **Python** for parsing, cleaning, and uploading CSV files with 800,000+ cells of patient and form data, employing parallel processing and caching for efficiency
- Built FHIR-compliant API with OAuth support using **Python Flask** for Canada Health Infoway Projectathon; passed **100% of test cases** compared to an average of 50% for other vendors
- Created an **Angular** website facilitating youth access to mental health services, securing a **multi-million dollar** contract with a provincial health organization
- Developed and shipped virtual group appointment functionality using **Ruby on Rails** and **Vue**, optimizing data management by eliminating data duplication with single table inheritance.

Undergraduate Teaching Assistant Sep. 2022 – Dec. 2022
University of British Columbia *Vancouver, BC*
- Led weekly programming labs for **over 60** students for CPSC 110 (Computation, Programs, and Programming)
- Received a **99%** average satisfaction rating in all categories throughout all lab sections

PROJECTS

YouTube Playlist Video Maker | *Python, Flask, React, Docker, Azure, Git* Jul. 2022 – Sep. 2022
- Developed a full-stack web application using **Python** and **Flask** to create and download music playlist videos by combining multiple videos into one
- Used ffmpeg image-based editing to decrease memory usage by **40%** from documentation recommended method

Easy Queue | *JavaScript, Express, Socket.io, React, MongoDB, Git* Jun. 2022 – Jul. 2022
- Developed a full stack queue website with token-based user authentication to create, run, share, and join simple online queues
- Utilized **Socket.io** (web sockets), **React**, and **MongoDB** to allow for **real time** updates of queues

Java Cards - Flashcard Application | *Java, Swing, JUnit, Git* Jan. 2022 – Apr. 2022
- Created a flashcard application in **Java** through **test-driven development** to create, edit, delete, and review decks of flashcards
- Incorporated **object orientated design concepts** such as the Iterator pattern

TECHNICAL SKILLS

Languages: Ruby, JavaScript, TypeScript, HTML/CSS, Python, C++, SQL (Postgres), Java, Racket, R
Frameworks and Tools: Ruby on Rails, Flask, Angular, Vue.js, React, Node.js, Git, JUnit, Docker, Rspec
Concepts: Full stack development, Backend, Frontend, Test-driven development, Cloud platform services

AWARDS AND ACHIEVEMENTS

Charles and Jane Banks Scholarship | *The University of British Columbia* Sep. 2023
1st Place Deloitte thinkTECH | *Deloitte, UBC BizTech* Nov. 2022
Trek Excellence Scholarship | *The University of British Columbia* Sep. 2022