

Yifan Hao

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EDUCATION

University of British Columbia

B.Sc. in Computer Science and Statistics

GPA: 4.33/4.33

Expected Grad: May 2025

EXPERIENCE

Software Engineer Intern

Sony Pictures Imageworks

Jan. 2024 – Present

Vancouver, BC

- Developing an in-house documentation platform on the infrastructure team

Software Developer Intern

Verto Health

Jan. 2023 – Aug. 2023

Toronto, ON

- Developed **data pipeline** in **Ruby** and **Python** to ingest CSV files with 850,000+ cells of patient and form data, leveraging multi-threading and caching for improved efficiency
- Implemented API endpoints using **Python Flask** to comply with Health Canada standards; passed **100% of test cases** for standards compared to an average of 50% for other vendors
- Created **Angular** components for a website facilitating youth access to mental health services, helping to secure 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

University of British Columbia

Sep. 2022 – Dec. 2022

Vancouver, BC

- Led weekly programming labs for **over 60** students for CPSC 110 (Computation, Programs, and Programming)
- Received a **99%** average satisfaction rating throughout all lab sections

PROJECTS

Grep | C++

- Created a remake of the UNIX command-line utility grep in **C++**
- Implemented the Boyer-Moore string search algorithm and other techniques to enable efficient search

Voter | Python, Kafka, Spark, Streamlit, PostgreSQL, Docker

- Implemented a real-time election-style voting system using Kafka and Spark
- Visualized aggregated vote information in real-time with Streamlit and Matplotlib

YouTube Playlist Video Maker | Python, Flask, React, Docker, Azure, Git

- 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%** compared to popular Python editing package

Easy Queue | JavaScript, Express, Socket.io, React, MongoDB, Git

- Developed a website with token-based user authentication to create, share, and join simple online queues
- Utilized **Socket.io** (web sockets), **React**, and **MongoDB** to allow for **real time** updates of queues

TECHNICAL SKILLS

Languages: Python, C/C++, Ruby, JavaScript, TypeScript, HTML/CSS, SQL (Postgres), Java

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

AWARDS AND ACHIEVEMENTS

Charles and Jane Banks Scholarship | UBC

Sep. 2023

1st Place Deloitte thinkTECH | Deloitte, UBC BizTech

Nov. 2022

Trek Excellence Scholarship | The University of British Columbia

Sep. 2022, 2023