

Hasan Altaf

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EDUCATION

University of British Columbia

Bachelors in Computer Science and Business, Minor in Data Science

Expected Graduation: May 2023

Vancouver, BC

- Cumulative GPA: 3.97/4.0
- Ranked among top 10 in a class of over 700 students
- Academics: Software Construction (Object-Oriented Design), Data Structures and Algorithms, Computer Systems
- Activities: Citadel Terminal AI top 0.5% globally, 3-time hackathon winner

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Go, SQL, R, JavaScript/TypeScript

Tools and Frameworks: Kanban, Docker, AWS, Google Cloud, React, Node, Flask, NumPy, Git, Azkaban, Mongo

EXPERIENCE

Software Engineer Intern - Predictive Analytics Team

Jan 2021 – Present

Enverus

Calgary, AB

- Promoted to the primary back-end developer on the Predictive Analytics squad within 3 months
- Eliminated critical bugs in the ETL process and freed over 100GB by independently creating an algorithm that heuristically detects faulty data
- Expanded product scope into renewable energy by automating 20+ data ingestion jobs using Python and Azkaban
- Developed and optimized Node.js REST APIs communicating with SQL and NoSQL distributed databases
- Designed and refactored 10+ React components for data visualization, using Redux for global state management

Undergraduate Teaching Assistant - Data Structures and Algorithms

Sep 2020 – Jan 2021

The University of British Columbia

Vancouver, BC

- Led office hours and labs to communicate the design, analysis, and justification of DS&A in C++
- Received an average score of 4.8/5 for teaching ability, communication and preparedness

Procurement Analyst Intern - Generation Infrastructure Projects Team

Jun 2019 – Aug 2019

BC Hydro

Burnaby, BC

- Saved over \$500,000 by implementing a python application that compares project expenses to industry standards
- Spearheaded the revamp of the Indigenous selective procurement strategy after presenting data on past projects

PROJECTS

FinMock | *Go, Docker, AWS, React, Redux, TypeScript, SQL (MySQL)*

- Co-founded and launched a finance interview preparation platform with 800+ users
- Engineered a REST API in Go, continuously deployed to Google App Engine
- Designed and implemented a SQL (MySQL) database hosted on Amazon RDS
- Developed a Next.js (React) frontend using Chakra UI and Redux, achieving a lighthouse performance score of 93

GroUber - Carpool Router | *TypeScript, React, Node.js, Google Cloud Firestore*

- Spearheaded the development of solving the NP-hard problem of carpool routing using heuristic techniques
- Integrated APIs from Google Maps and Radar.io to calculate and visualize routes and distances

Forex Arbitrage Detector | *Java, Lombok, Guice*

- Created an application that parses real-time currency pricing from an API and detects arbitrage opportunities
- Implemented a graph through an adjacency list with the Bellman-Ford Algorithm detecting negative weight cycles

COMMUNITY INVOLVEMENT

Technology Coordinator

Jul 2020 – Jun 2021

WestPeak Research Association

Vancouver, BC

- Increased Lighthouse performance score by 185% through redesigning the [website](#) from scratch using Gatsby.js
- Decreased development time by 90% through developing a custom CMS with Excel and markdown files

Volunteer Teacher

May 2020 – Jun 2021

Microsoft TEALS

Vancouver, BC

- Prepared and delivered an introductory computer science course in Snap! and Python to under-served students