

Alex Han

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Education

University of British Columbia

Vancouver, BC

BSc, COMBINED HONOURS IN COMPUTER SCIENCE AND STATISTICS

Expected Graduation: May 2023

- **Cumulative GPA:** 4.33/4.33 (90.3%)
- **Awards:** UBC Presidential Scholars Award (\$30,000), Dean's Honour Roll
- **Relevant Courses:** Software Construction (94%); Basic Algorithms and Data Structures (*In Progress*); Introduction to Computer Systems (*In Progress*); Computer Hardware and Operating Systems (*In Progress*); Internet Computing (*In Progress*)
- **Activities:** ACM ICPC, Sauder JDC West
- **Certifications:** AWS Cloud Practitioner

Experience

UBC Mathematics Department

Vancouver, BC

UNDERGRADUATE STUDENT RESEARCHER

Sep 2019 - Apr 2020

- Implemented an agent-based model to simulate cell migration using **Python**
- Improved scalability through **object-oriented design patterns** using the **Mesa framework**
- Integrated visualization and optimized calculations using **NumPy** and **Pandas**

Projects

Read the Room

JavaScript, AWS Amplify, AWS AppFlow, ReactJS, NodeJS, Slack API

A SENTIMENT ANALYSIS TOOL FOR BETTER TEAMS

Aug 2020 - Present

- Developing front-end features (e.g. dashboards) using **ReactJS**
- Parsing slack messages and implementing data storage in **AWS S3** using **Amazon AppFlow**
- Integrating **OAuth** user login authentication with **AWS Amplify** and **Amazon Cognito**
- Integrating **sentiment analysis** of slack messages using **Amplify's predictions tool**

jMyAverage

Java, GSON/JSON, JUnit, Swing

A DESKTOP APPLICATION TO TRACK YOUR ACADEMIC PERFORMANCE

Jul 2020 - Aug 2020

- Integrated data persistence of **JSON files** using the **GSON library**
- Implemented **graphical user interface** using the **Java Swing library**
- Improved scalability and ease of maintenance through **object-oriented design patterns**
- Improved project robustness through **test driven development** and the **JUnit library**

Stock Backtesting Visualizer

Python, JavaScript, ReactJS

A SIMPLIFIED SOLUTION FOR BACKTESTING COMPLICATED TRADING STRATEGIES

Aug 2020 - Present

- Used **Python's Backtrader framework** to implement existing trading strategies
- Parsed pricing information using **Yahoo Finance API**
- Implementing a web-based user interface using **ReactJS** and **Chart.js**

Storybook

D3.js, JavaScript, ReactJS, NodeJS, Gatsby, GraphQL, Netlify

PERSONAL WEBSITE

Aug 2020 - Sep 2020

- Implemented **data visualization** of JSON data using **D3.js**
- Built using **Gatsby** and **ReactJS**, launched with **Netlify**
- Cut development time significantly by incorporating **markdown-based content management system** and using **GraphQL**

Technical Skills

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|----------------------|--|
| Languages | Java, Python, HTML, CSS, JavaScript |
| Data Analysis | Microsoft Excel, NumPy, Pandas |
| Frameworks | ReactJS, NodeJS, ExpressJS |
| Others | Git, MongoDB, AWS S3, AWS AppFlow, AWS Amplify, Amazon Cognito |