

# 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 (2019)
- **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, UBC Launch Pad
- **Certifications:** AWS Cloud Practitioner

## Experience

### UBC Launch Pad

Vancouver, BC

SOFTWARE DEVELOPER

Sep 2020 - Present

- Developing **well-documented, open-source projects** with a group of developers, designers, and tech leads

### UBC Mathematics Department

Vancouver, BC

UNDERGRADUATE STUDENT RESEARCHER

Sep 2019 - Apr 2020

- **Reduced development time** by **70%** and improved scalability by implementing **object oriented design patterns** using **Mesa** - an agent-based modelling framework in **Python**
- Saw **code churn** at **<15%** by following **test driven development** and **optimized calculations** by **40%** by utilizing **NumPy/Pandas**
- Simplified data analysis for non-coding users by implementing data visualization with **Matplotlib**

## Projects

### Read the Room

AWS (Amplify, AppFlow, S3, Cognito), JavaScript, ReactJS, NodeJS, Slack

A SENTIMENT ANALYSIS TOOL FOR BETTER TEAMS

Aug 2020 - Present

- Achieved **>90% confidence level** for extracted sentiment by utilizing **Amplify's predictions tool**
- **Reduced development time** by **40%** by automating data flow between **Slack** and **S3** buckets with **AppFlow**

### Stock Backtesting Visualizer

Python, JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB

A SIMPLIFIED SOLUTION FOR BACKTESTING COMPLICATED TRADING STRATEGIES

Aug 2020 - Present

- Implemented **5+ trading strategies** by utilizing **Backtrader** - a **Python** framework for backtesting and trading
- **Reduced code churn rate** by parsing historical financial data using **Yahoo Finance API**

### Storybook

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

PERSONAL WEBSITE

Aug 2020 - Sep 2020

- **Shortened cycle time** for page updates by **70%** by implementing a **markdown-based CMS** and simplifying data aggregation with **GraphQL**
- **Reduced site load time** to **1.407s** by utilizing **Gatsby** with **React**

### jMyAverage

Java, GSON/JSON, JUnit, Swing

A DESKTOP APPLICATION TO TRACK YOUR ACADEMIC PERFORMANCE

Jul 2020 - Aug 2020

- **Improved task success rate** by **80%** by implementing a **graphical user interface** with the **Java Swing** library
- Achieved **code coverage** of at least **100%** for entities and **50%** for usecases by writing tests with the **JUnit** library

## Technical Skills

<b>Languages</b>	Java, Python, HTML, CSS, JavaScript, Go, C/C++ ( <i>learning</i> )
<b>Data</b>	D3.js, MongoDB, Microsoft Excel, NumPy/Pandas, GraphQL
<b>Web</b>	ReactJS, NodeJS, ExpressJS
<b>Others</b>	Git, AWS (S3, AppFlow, Amplify, Cognito), Linux (Ubuntu), macOS