



William Cui

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EDUCATION

BSc, Mathematics, University of British Columbia

May 2022 (Expected)

Computer Science Courses: Basic Algorithms and Data Structures (CPSC 221), Software Construction (CPSC 210)

Math & Statistics Courses: Linear Algebra (MATH 221), Elementary Statistics for Applications (STAT 200), Intro to Probability (STAT 302)

SKILLS

Technical Languages: Java, Python, JavaScript, C++, HTML, CSS

Tools and Frameworks: Spring Boot, NodeJS, ExpressJS, VueJS, ReactJS, MongoDB, JPA, Git, GitHub, BeautifulSoup, Selenium, ElasticSearch, LogStash, Kibana

EXPERIENCE

Software Developer Intern

Royal Bank of Canada

May 2020 - Dec 2020

- Created and maintained a full-stack web application, using Java, VueJS, and MySQL to store and display critical customer data.
- Used Spring Boot to create functions to streamline business data into and out of an application.
- Deployed and maintained applications on Pivotal Cloud Foundry.
- Automated the display of Cloud metrics data using Python.
- Used ElasticSearch, LogStash and Kibana to streamline and display customer data analytics.
- Interacted with customers and resolved queries about Cloud platforms (AWS, Kubernetes, PCF, Azure, etc).
- Worked as a part of the Cloud Enablement team.

PROJECTS

AlgoTrader

Aug 2020 - Present

- Built with Python to automate a SMA trading strategy, trading daily, and calculates the optimal trade.
- Utilizes the API of yFinance to pull historical stock data for manipulation.
- Uses Pandas and Matplotlib to model profitability and performance.

Free Your Fridge

nwHacks 2020

- Full-stack web application using MongoDB, ExpressJS, ReactJS, and NodeJS to keep track of expiry dates of foods in the users fridge.
- Uses a REST API to upload and store items in the users fridge.
- Built in a team of two developers with a time limit of 24 hours.

UBC Course Checker

May 2019

- Python script built to update the user about course availability on the University of British Columbia's course registration website.
- Uses BeautifulSoup to web-scrape data and Selenium to automate the traversal of the site.

Pomodoro Planner

Dec 2018

- Java project developed to utilize the Pomodoro technique of planning and studying in scheduling.
- Utilizes JSON parsing to load and save "projects" on to the drive and JavaFX for the User Interface.
- Project from Software Construction (CPSC 210).