Guanghua Yang

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Education

UNIVERSITY OF BRITISH COLUMBIA | BACHELOR OF SCIENCE

MAY 2020 - AUG 2022

- · Computer Science Major with Distinction
- · CGPA 88/100 | UGPA 88/100

SIMON FRASER UNIVERSITY | BACHELOR OF APPLIED SCIENCE

SEP 2019 - APR 2020

- · Computer Science Major
- · CGPA: 4.05/4.33
- · SFU 2020 Spring Alumni Scholarship | SFU 2019 Fall entrance scholarship

FRASER INTERNATIONAL COLLEGE

SEP 2018 - AUG 2019

· CGPA: 3.865/4.33

Skills

- · Programming Language: R, Python, Java, C++, MATLAB, JavaScript, HTML, SQL, Julia
- · Framework and Packages: Scikit-Learn, PyTorch, TensorFlow, *Node.js*, Spark, *react*, *express*, MongoDB
- · Interpersonal skills: Technical report development, Multitasking abilities, Time management

Teaching Experience

COMPUTER SCIENCE TEACHING ASSISTANT

VANCOUVER, BC

CPSC 320 Intermediate Algorithms and Design

Jan 2022 - Apr 2021

- · Weekly meetings with course staff to discuss improvements to the course
- · Updating weekly tutorial and assignment questions
- · Holding weekly office hours where students may get help on assignment, and course concepts
- · Leading weekly tutorials and aiding students
- · Grading assignments, midterms, and final exam

Academic Experience

APPLIED INDUSTRY PRACTICES

CPSC 455

E-Commerce Web Application

Apr 2022 – Aug 2022

- · Designed an e-commerce platform supporting roles from guests to buyer to seller
- · Included a variety of features from upload products, drag&drop pictures and cart operations to more advanced integration such as live chat
- · Built an express server that storing data in MongoDB, connected to the client built with react-redux
- · Support login with google account, and user authentication.
- · Applied release engineering techniques, including setting up GHA, and CI/CD

SOFTWARE ENGINEERING

CPSC 310

UBC Insight Façade

Jan 2022 – Apr 2022

- Built a web application that parses datasets about courses and rooms at UBC in Typescript, and allows querying for information about the courses, rooms, and course scheduling
- · Used HTML libraries for the front end, and express framework for the back end
- · Implemented unit tests using Mocha throughout the project to ensure top quality of the system
- · Used GitHub to allow team collaboration and keep track of changes made throughout development

MACHINE LEARNING AND DATA MINING

CPSC 340

Data Scientist's Salary Prediction

Apr 2021 – Jun 2021

- Replaced NaN or -1 values with mean or median based on distribution for numerical features
- Reduced dimensionality by trimming features have more than 10 categories
- Feature selection by information gain and correlation matrix
- Applied Linear regression, lasso, random forest, and gradient boosting to fit the model and choose random forest model based on NRMSE, with 89.7% accuracy