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EDUCATION

University of British Columbia

Vancouver, BC

B.Sc Computer Science GPA: 4.2 / 4.33

Sept 2018 - Dec 2023

Coursework: Machine Learning and Data Mining, Advanced Relational Databases, Computer Vision, Computer

Networking, Algorithm Design and Analysis

SKILLS

Programming Languages: Python, Java, C#/.NET, C/C++, SQL Frontend: Typescript, Angular, HTML/CSS Testing: Selenium, JUnit, MSTest, Pytest

Tools/Environment: Github, Visual Studio, Oracle, TeamCity, Azure DevOps, Splunk

Work Experience

Copperleaf Technologies

Vancouver, BC

May 2022 - Dec 2022

Software Developer Intern

- Designed and implemented 10+ **REST APIs** in **C**#/.**NET** environment for an investment optimization engine.
- Wrote dynamic hierarchical **SQL** query to detect circular dependency in Oracle DB.
- Resolved 10+ complex backend/frontend/DB bugs, maintaining **effective communication** with QA throughout.
- Built frontend components eg.data grid within **Angular** framework. Communicated with UI designer throughout.
- Constructed a new database schema using Oracle SQL.
- Created isolated, readable unit tests in MSTest to thoroughly test the code.
- Presented a new team-developed feature to the entire engineering team in a clear and concise manner.

Broadcom Software

Vancouver, BC

Software Developer in Test Intern

Sept 2021 - April 2022

- Wrote and maintained 40+ automated tests using **Selenium**.
- Wrote 50+ robust **REST API tests** in Pytest, covering positive, negative, and permission scenarios.
- Adapted to agile practices such as sprint planning and daily standups in a fast paced scrum team.
- Utilized CI/CD tools such as GitHub and TeamCity.

Projects

Personal Project - File Organizer Automation Script 2024 Python github.com/daisyuma/File-Organizer

• Utilized Python's watchdog observer to monitor newly downloaded files. It identifies similar file names based on Fuzzy string matching score, and organize them into a designated folder.

Machine Learning Projects - 2023 python

- Data Classification: Implemented and compared Decision Tree and KNN on a dataset of 400 US cities to classify whether each state was a red or blue state in the 2012 election, with highest 0.934% validation accuracy.
- Dimension Reduction: On a dataset containing 50 animals and 85 features, implemented PCA to visualize dataset in a lower dimension. Learned 14 PCs to explain 75% of the variance in dataset.
- Robust PCA for Background Subtraction: Implemented Robust PCA to detect cars on a highway, analyzing a dataset where each row represents the pixels from a single frame of a highway video.
- Image Classification into 10 Classes: Utilized PyTorch Deep Learning layers to learn the optimal Convolutional Neural Network on the CIFAR10 dataset, achieving a validation accuracy of 52%.

Internship Project - Server Status Dashboard 2022 Python, Flask, HTML/CSS

• Built a Flask webpage that displays the status of multiple company servers asynchronously. Uses Vault to authenticate users.

Hackathon - Company Hackathon 2021 Python

• In a group of 4, utilized python pandas and bokeh lib to build a script that queries automation test report and generates a visualization of the data, then emails the visualized data to registered users

Hackathon - BizHacks 2020 Java, Java Swing

github.com/daisyuma/BizHack-Project

• Modeled a virtual sales associate at Best Buy. The algorithm recommends products based on the user's input data to a series of questions. Utilized Swing to build a simple UI.

School Project 2020 - Facebark PHP, MySQL

github.com/daisyuma/Facebark

• Used relational database to implement a social media platform that stores information about dogs and their owners. Allows user to query for aggregated data of their dogs.