Dat Do

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EDUCATION

B.S. in Computer Science | Sep 2019 – Dec 2021
University of Washington | Seattle, WA
Direct Admit to Major
2019-2020 Courses: Data Structures & Parallelism, Systems Programming, Foundations of Computing, and more.

Associate of Arts & Sciences | Sep 2017 – Jun 2019
Bellevue College | Bellevue, WA
Academic Concentration in Mathematics
Completed Courses: Calculus I-IV, Linear Algebra, Fundamentals of Computer Science I-II, and more.

EXPERIENCE

High School Software Engineering Intern **Microsoft, Data + AI – Visual Studio** Jun 2019 – Sep 2019

- Launched and maintained a machine learning contest platform where developers and data scientists alike build novel machine learning models through competitions hosted by various organizers.
- Engineered the CI/CD pipeline to automate our team's process of going from new commits in the source code to live production, eliminating upwards to 90% of the initial manual overhead involving dev environment setup and testing.
- Learned to utilize Azure cloud services (DevOps, Pipelines, Resources, etc.), leverage open-source, and commit quality code.

Treasurer **Bellevue College Student Programs** Sep 2018 – Jan 2019

- Held responsibility for the overall administration of the Associated Student Government budget with over $500,000 from four different budget accounts, enabling clubs/programs to operate and grow in and outside of the College.
- Led meetings as Chair of the S&A Fee Committee to review/approve funding requests based on needs and available budget.
- Took on crucial roles within the College serving as a voice and platform for the student body against critical issues.

Machine Learning Intern **Port of Seattle & Sea-Tac Airport** Jul 2018 – Sep 2018

- Worked on a novel Computer Vision prototype for classification and segmentation of aircraft and ground equipment at Sea-Tac Airport. This involved identifying and labeling a few thousand images captured at different gates on the airfield. Several detection models from the Tensorflow detection model zoo are then trained on the dataset and analyzed for tradeoffs.
- Defined and implemented a Facial Detection and Recognition system to further explore the various applications of Computer Vision, a Convolutional Neural Network to classify handwritten digits, and an NLTK model to perform text sentiment analysis on Twitter tweets. Primarily utilized Python, PyTorch, OpenCV, amongst other data science libraries.

PROJECTS

Bidirectional Dijkstra's (C++) Mar 2020 – April 2020

- Implemented the Bidirectional Dijkstra's algorithm in C++ to solve shortest-path problems on any weighted directed graph.

File Crawler / Search Engine (C, C++) Jan 2020 – Mar 2020

- Built a multithreaded HTTP server where users can search for key words/phrases against a root directory of folders and files.

Python Code Completion Model (Python) Jul 2019

- Built a contest-winning Seq2Seq Frequency Model to predict Python code based on 2,000 top-starred GitHub repos during the Microsoft OneWeek Hackathon.

PathFinding Visualization (JavaScript, HTML/CSS, jQuery) Mar 2019

- Find the shortest path between any two cells on a grid with user-defined barriers using BFS. Hosted on *datddo.com/pathfind/*

Facial Detection & Recognition (Python, OpenCV) Jul 2018

- Interactive computer vision model that detects and recognizes real-life human faces. Users can choose to add additional data (images) to the dataset to be trained on and experimented with.