VICTOR SHAN

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VictorShan

% Website

EXPERIENCE

Research Assistant at MISL Lab

UW Molecular Information Systems Lab

July 2020-present

♀ Seattle, WA

- Modelling DNA storage process from synthesis to sequencing
- Applying models to optimize process for accuracy and lower cost

iGEM (International Genetically Engineered Machine)

University of Washington

Apr 2020-Present

♀ Seattle, WA

- Developing a website using React and Firebase to present the project
- Set up CI/CD to check pull requests and page deployment
- Modelling the harmful metal de-accumulation process in the human body using scipy, matplotlib and numpy

FIRST Robotics Competition

Roosevelt High School's Iron Riders

1 2015-2016, 2017-2019

♀ Seattle, WA

- Led Image Recognition Subteam
- Developed image recognition to process images and determine robot's location from target
- Taught basic computer programming in Java to new members

Intercollegiate Rocket Engineering Competition

North Seattle College Team

Seattle, WA

- Lead the Electronics Bay subteam 2018-2019 competition
- Repaired old electronics bay for rocket telemetry and deployment
- Researched and setup various parts for integration into electronic bay

PROJECTS

Tic Tac Toe

- Implemented cloud NoSQL database and authentication
- Constructed horizontally scaleable Node.js/Google Cloud Functions backend that could scale to millions of users

University of Washington Campus Map

- Processed CSV file for Graph construction
- Found shortest path using Dijkstra's Algorithm
- Server side route processing with REST API
- Deployed React Front-end with Spark Java backend on Heroku

Naive Bayes Spam Filter

- Implemented Naive Bayes algorithm to train and classify spam emails
- Optimized with multi-threaded training and classification

Indexed File Server

- Crawled through directories indexing files contents
- Searched directory using terms and get most relevant matches

COURSES

University of Washington

Paul G. Allen School of Computer Science

9/2019 - 6/2023

Seattle, WA

GPA: 3.56

- Software Design and Implementation
- Data Structures and Parallelism
- Web Programming
- Systems Programming
- Intro to Database Management
- Foundations of Computing I & II
- Hardware/Software Interface

North Seattle College

Associate of Science (Mech. Eng. Transfer Degree)

9/2017-8/2019

♀ Seattle, WA

GPA: 3.98

- Linear Algebra
- Vector Calculus
- Engineering Statics
- Mechanics of Materials
- Engineering Dynamics

PROGRAMMING SKILLS

Java JavaScript

SQL and NoSQL

C++ Git

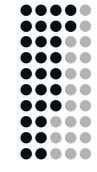
CSS

Linux Environment

Python

Latex & Markdown

VBA



TECHNICAL SKILLS

Problem Solving

Logical Reasoning

Probability

React

Node.js

CERTIFICATES

2017-2023 CompTIA A+ Certificate