TYLER PHAM

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SKILLS

Languages

> Python
> Dart
> Java

> JavaScript
> MATLAB

> HTML/CSS
> SQL

Technologies

> Express.js
> Git
> Gatsby.js

> React
> Flutter

> Docker
> NumPy/Pandas

EDUCATION

Simon Fraser University   *Graduated Aug 2019*
B.Sc **Computer Science.** GPA: 3.20

British Columbia Institute of Technology   *Graduated May 2012*
Diploma of Technology, **Mechatronics and Robotics**

EXPERIENCE

Neurio Technology Inc. | Vancouver, BC
Software Developer Co-op   *Sept 2017 - May 2018*
> Analyzed time series data from home energy monitoring sensor to determine optimal cost saving strategies
> Built and deployed a testing infrastructure in Python to simulate the residential electricity usage of 200 houses over AWS and validated different strategies
> Designed and deployed an AWS microservice to run daily to convert protobuf data stored on S3 of over 4000 devices to HDF5 which is more effectively used in the rest of the systems

Advanced Cyclotron Systems Inc. | Richmond, BC
Controls System Specialist   *Dec 2012 - Mar 2014*
> Programmed the control system in RSLogix 5000 for particle accelerators to different customer specifications
> Designed the HMI in RSView32 and Factorytalk View to allow operators to run automated functions or manually control different components of the machinery
> Created documentation of existing the control system to better organize and allow for frequent changes in different projects and different customizations
> Travelled to Japan and USA to install control systems, work with customers and assist with knowledge transfer

Electrical Mechanical Technologist   *Jun - Dec 2012*
> Wired PLC cabinets and assembling control boxes to fit the customers' needs
> Followed test procedures to document and verify quality of components

PROJECTS

Spotify Autoplaylist
Web-based Information Systems, CMPT 470, SFU   *July - Aug 2019*
> Collaborated with four other students to develop a custom Spotify web player using React, ExpressJS and the Spotify API and SDK
> Worked on the backend API with ExpressJS to communicate with our PostgreSQL database containing the user's song and playlist data

RobotMusic
Machine Learning, CMPT 419, SFU   *Nov - Dec 2019*
> Leveraged recurrent neural networks with Keras to generate music as MIDI files from different genres of music
> Experimented with different networks using LSTM and GRU units to try to create music with the same theme as holiday music

PERSONAL PROJECTS

DOTA 2 Mobile Encyclopedia   *Sept 2019 - Present*
> Mobile application created in Flutter to display details of characters from the video game DOTA 2