

Certification

- TensorFlow Developer Certificate
- Google Cloud Platform Big Data and Machine Learning Fundamentals
- Industrial IoT on Google Cloud Platform

Experience

Electrical Engineer-In-Training 01/2018 to Present
Shipstone Corporation Victoria, Canada

- Built data pipeline for receiving, processing, storing and visualizing data from multiple sensors using SQLite and PostgreSQL database and Python modules; Socket, NumPy, Pandas, SQLAlchemy, PyQt, Flask and Plotly Dash
- Devised robust and fast custom JSON based Server/Client socket API to deliver gigabytes of structured data which increased performance by up to 100 percent and delivered historical data
- Working knowledge of Python object orientated programming, data structure, algorithm, and tools; Pandas, NumPy, Scikit and Matplotlib, and industrial controls and automation system
- Maintained codebase versions using Git and automated building, testing and releasing using Jenkins and Artifactory and programmed several microservices using REST API

Project

S&P 500 Stock Market Web App
Data Visualization Project

- Deployed a simple Flask/Dash web-application using Heroku pipeline

Covid-19 Analysis
Data Analysis Project

- Modelled and plotted United States mortality projection using linear regression method in Python's Scikit module and Tableau

EngrManage
Personal Project

- Developing web-app platform for maintaining engineering and business information using Flask framework in Python

EEG Control System
Engineering Design Project, University of Victoria

- Successfully trained Scikit model to control a Remote-Control car by brainwave and blink strength

Cloud Messaging App - Android
Personal Project

- Designed internet messaging platform, including authentication and database system using Firebase

Part Sorting Conveyor Belt
Mechatronics Course, University of Victoria

- Developed and optimized part-sorting algorithm, based on material and color, in embedded C language

Education

Bachelor of Engineering (BEng): Electrical Engineering
University of Victoria

September 2012 - December 2017

Hard Skills

Computer Languages Proficiency:
Python, SQL
Familiarity:
C, Java
Operating System
Windows, Linux
Software Dev. Track and Test
Jira, Jenkins
Version and Release Control
Git, Artifactory
Containerized Deployment and Networking
Docker
Cloud Computing
Firebase, GCP
Python Libraries
NumPy, Pandas, PyQt, Flask, Scikit, SQLAlchemy
Database
SQLite, PostgreSQL
Industrial Automation System
Schneider Elec. and Allen Bradley
Industrial Controls
PLC, SCADA, HMI
Industrial Communication
Modbus
CIP:
Ethernet/IP

Soft Skills

- Collaboration
- Problem Solving
- Positivity
- Leadership
- Organization
- Dedicated