JED YEO

Engineering Physics Student

jed324@gmail.com | https://jedyeo.com | https://linkedin.com/in/jedyeo/ | https://github.com/jedyeo

WORK EXPERIENCE

Undergraduate Teaching Assistant

UBC Computer Science Dept.

Sept 2019 – Present | Vancouver, B.C.

- Led multiple lab sessions a week, engaging first and second-year students in programming tutorials and lab activities
- Monitored online forum and answered student questions while promoting discussion and understanding of course material

Developer Co-op

Plantiga Technologies

Jan 2020 – Apr 2020 | Vancouver, B.C.

- With Google Cloud Platform, developed a data pipeline in Python and ReactJS to anonymize patient data and activities for the admin-facing interface of the data analytics platform ensuring HIPAA compliance
- Created an automated reporting system in Python which responded to user requests through the Slack API, and returned a patient report with past data and activities

Electrical & Controls Co-op

Dynamic Attractions

May 2019 – Aug 2019 | Port Coquitlam, B.C.

- Conducted FAT (Factory Acceptance Testing) of high voltage prototype ride systems to ensure the project met international safety standards
- Developed a Human Machine Interface to monitor and perform high voltage testing on ride systems which increased efficiency of the QA process by 20%

PROJECTS

hireflow - Club Management App

UBC Launchpad Sept 2020

- Used ReactJS to design a modular dashboard for a new recruiting platform to display applicants and their profiles to recruiters
- Collaborated with the back-end team to ensure integration of the front-end components with the back-end server and database using Postman

Autonomous License Plate Reading Robot

Software Course Project Sept 2020

- In a team of 2, collaborated remotely to design and develop a fully autonomous virtual robot in ROS Melodic to read and identify license plates within a virtual world.
- Used classical computer vision techniques to control the robot's movement by leveraging scipy functions and achieving a 100% completion rate of the circuit
- Designed a custom convolutional network to identify alphanumeric characters on license plates, with the model reaching 99% accuracy on testing data sets

EDUCATION

BASc, Engineering Physics

University of British Columbia

Sept 2017 – Present

- Minor in Honours Mathematics
- Expected Graduation – May 2023
- Available for **4 months** starting May 2021

SKILLS

Programming

Python | Jupyter Notebook | Java | C/C++ | Golang | ReactJS | MATLAB

Software

Google Cloud Suite | Git | JUnit | numpy | scipy | TensorFlow | Office | Postman

Electrical

Circuit Design & Analysis | Digital Logic Design | Soldering | Multimeter | Oscilloscope

COURSEWORK

- Principles of Software Architecture
- Computer Vision & Machine Learning
- Data Structures & Algorithms
- Robotics Design & Prototyping
- Circuit Design & Analysis
- Microcomputers & Digital Logic
- Signals & Systems
- Mathematical Proof
- Applied Probability

INTERESTS & HOBBIES

- Freestyle Snowboarding
- Investing in Stocks
- Building Things
- Ice Hockey
- Bullet Chess
- Video Gaming
- Gourmet Cooking & Barbecuing