# **JED YEO**

### **Engineering Physics Student**

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# WORK EXPERIENCE

#### **Undergraduate Teaching Assistant**

#### **UBC** Computer Science Dept.

🛗 Sept 2019 - Present

**Q** 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

- 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

- 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

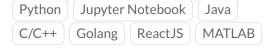
#### **University of British Columbia**

Sept 2017 - Present

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

## SKILLS

#### **Programming**



#### Software



#### **Electrical**



# **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