Scott Jiang

Electrical and Computer Engineering Student · University of British Columbia

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Skills and Interests

Programming C · HTML · CSS · Python · JavaScript · Java · Basic SQL · ReactJS · React Native · Redux · Django · OpenCV · Git
Software Tools Visual Studio · VSCode · PyCharm · IntelliJ · Slack · Jira · pgAdmin · Github · Gitlab · MS Office
Hardware Digital Logic Design · Circuit Analysis/Design · Oscilloscope · Multimeter · 8051 microcontroller
Interests Frontend/Backend Development · Sustainable technologies · Embedded Systems

Experience

Software Engineer Intern – KnowHow – Calgary, AB (remote) May 2021 – Aug 2021

- Implemented user notification customization features on both our webapp and mobile platform using **ReactJS**, **React Native**, **Redux** and **Django**
- Integrated new sorting features on our mobile app allowing users to toggle between compact or normal process view, along with optional sorting options such as alphabetical, last modified, or by tags
- Refined user reported bugs and corresponded with our VP of product to modify existing UI
- Actively participated in sprint meetings and presented my tickets via bi-weekly product demos

Software Developer – UBC Bionics (Student Design Team) – Vancouver, BC Nov 2020 – Present

- Utilizing **Pytorch** and **Numpy** to build a surface electromyography (**sEMG**) detector for a bionic arm which detect electrical signals that determines its movements
- Developed a live data visualizer that streams data directly from a Raspberry Pi and EMG sensors with **Plotly Dash**
- Implementing computer vision with **OpenCV** and **Python** to allow our bionic arm to identify household objects

Orientation & Transition Leader – UBC Jumpstart – Vancouver, BC Aug 2020 – April 2021

- Management of a first-year orientation group of 30 engineering students with a partner OTL
- Corresponded with a faculty fellow in organizing daily activities and icebreakers for students
- Staying connected and checking in on students throughout term 1 and 2 via virtual collegia

Projects

LocalSzn – 2020 Hack the 6ix (Hackathon)

- LocalSzn is a webapp created with 3 other group members aimed at identifying locally sourced produce items that are in season and cheaper than usual depending on province
- Utilized publicly available data collected by Agriculture and Agri-food Canada and updated in our own database via the open.canada.ca API
- Designed the frontend of the webapp with **HTML/CSS** and **Figma**

DormBuddy – 2021 CalgaryHacks (Hackathon)

- Webapp created to enhance interaction between students in university based on personal interests where students can video chat each other and move around in a virtual dorm room
- Implemented Username/password registration and authentication using **JavaScript** and **Google Firebase**
- Designed the JavaScript game layout using **Figma** and **HTML/CSS**

Temperature Detector Strip Chart – Electrical Engineering Design Studio (ELEC 291)

- Built a circuit with an **EFM8 microcontroller** and **LM355** that detects temperature changes
- Programmed a strip chart that is updated based on temperature changes of the LM355
- Hardware was programmed with **C** and strip chart was programmed with **Python**

Education

University of British Columbia **Vancouver, BC**
Bachelor of Applied Science in **Electrical Engineering**, **Biomedical Stream** with **Co-op** Sept 2019 – Present
Relevant Courses: Data Structures and Algorithms, Software Construction, Signals and Systems