

# Scott Jiang

Electrical and Computer Engineering Student · University of British Columbia

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## Skills and Interests

<b>Programming</b>	C · HTML · CSS · Python · JavaScript · Java · ReactJS · React Native · Redux · Django · OpenCV · Git
<b>Software Tools</b>	Visual Studio · VSCode · PyCharm · IntelliJ · Slack · Jira · pgAdmin · Github · Gitlab · MS Office
<b>Hardware</b>	Digital Logic Design · Circuit Analysis/Design · Oscilloscope · Multimeter · 8051 microcontroller
<b>Interests</b>	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

- Learning the basics of **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**

Bachelor of Applied Science in **Electrical Engineering, Biomedical Stream** with **Co-op**

**Relevant Courses:** Data Structures and Algorithms, Software Construction, Signals and Systems

**Vancouver, BC**

Sept 2019 – Present

### **Made by Momma - Student Volunteer Lead**

April, 2018 – June, 2019

- An organization dedicated to making baked and cooked goods for mothers in need around Calgary
- Supervised over 25 volunteers split among 5 kitchens on a bi-weekly basis
- Ensured that the baked/cooked goods followed the guidelines provided by the Made by Momma Volunteer Coordinator
- Delivered ingredients to the school kitchen and the finished goods to the Made by Momma center
- Managed the recruitment of volunteers through bi-weekly presentations in the school theatre

### **Scotiabank Marathon - Student Volunteer Lead**

April, 2018 – June, 2019

- Coordinated and led 40 volunteers over the course of 2 days for 2 Scotiabank marathons
- Responsible for both setup and takedown of the marathon
- Devised a plan with the Scotiabank marathon volunteer coordinator 3 months ahead of time to arrange volunteer recruitment and registration
- Organized a schedule in collaboration with Scotiabank marathon organizers about volunteer tasks

### **Volunteer Churchill - Steering Committee Member**

March, 2018 – June, 2019

- Volunteer Churchill is the largest club at Sir Winston Churchill High School with over 500 students
- Contacted organizations around Calgary regarding volunteer opportunities for high school students
- Recruited for volunteer projects during our bi-weekly presentations in the school theatre with a regular attendance of over 200 students
- Supervised all volunteers on the day of each project and ensured that all students got home safely
- Entered the number of hours each student gained from their projects in a shared google sheets
- Accumulated over 150 volunteer hours as a volunteer organizer and leader
- In addition to Made by Momma and the Scotiabank marathon, I have also led volunteer projects such as the Terry Fox marathon, Thousand Villages, FIRST Lego League tournament, Light Up the Night, and many more

### **Helix Health Science Research Opportunities - Executive**

April, 2018 – June, 2019

- Communicated with professors at the University of Calgary to discover research opportunities for high school students
- Promoted research opportunities via social media and presentations at events such as Operation Med School
- Evaluated student applications and interviewed successful applicants
- Maintained weekly check-ins on student researchers and professors