

Ri Hong

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SKILLS

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, Racket, LaTeX

Technologies/Tools: ReactJS, Node, Git, VSCode, Android Studio, Arduino, IoT, Bluetooth(GATT, BLE), XCode, Raspberry Pi, Serial Hardware Communication, Photoshop, Linux Shell, Bash, Google Analytics

WORK EXPERIENCE

Microgreen Solar Corp.

Software Developer | Toronto, ON | Summers 2019-2022

- Implemented an HMI GUI using C to display key information about a battery (currently being used by 100+ customers)
- Developed an iOS bluetooth app to send and retrieve data from a battery management system to allow customers to view battery information such as voltage, current, charging status, and temperature
- Developed an Android app to interface with a raspberry PI to send and receive data to an AWS service
- Worked on the frontend React app to read data from the AWS service and display it to the user
- Developed an Android app to communicate via bluetooth with an ESP 32 microcontroller which read data from an inverter using serial communication

Microgreen Solar Corp.

Technical Intern | Toronto, ON | Summers 2019-2022

- Worked with electronics including soldering and cable assembly to test, repair, and perform maintenance on inverters
- Assembled and prepared components for EnergyPak lithium batteries
- Created cable harness drawings using the WireViz Python package

PROJECTS

Computer Science Club Website

ReactJS, Firebase | May 2021

- Developed the official website of Bethune C.I.'s computer science club to promote computer science and attract new members
- Lead the process of planning, prototyping, frontend design, and backend integration in a team of four
- Implemented Google Firebase to authenticate executives and used the Firestore database to store announcements, executives, and projects

Foodtastic

HTML, CSS, Javascript | May 2022

- A website that uses the Flipp API and Spoonacular API to compile a list of recipes and supermarkets to find the cheapest ingredients so that university students can make healthy and affordable food
- HTML and CSS used for the frontend and Javascript used to connect to the APIs
- Submitted to Jamhacks 6, won Best Hack for University Students (1 out of 24 teams)

Fluency

ReactJS | Aug 2021

- A web app used to train reading and speech fluency using the Symbl.ai text-to-speech API
- Won Best Veteran Hack and Best use of Symbl.ai in XHacks 2021

Personal Website

ReactJS, CSS | Jan 2023

- Developed a frontend React website to showcase my work experience and projects
- Used Midjourney AI image generation, Photoshop and pure CSS to achieve the parallax effect on landing page
- Integrated Google Analytics to track number of site visits (100+ site visits)

EDUCATION

University of Waterloo

Bachelor's of Computer Science (Co-op) • 2022 – 2027

- Specialization in Digital Hardware and Artificial Intelligence
- 87% Average