

Fei Lin

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Skills

Languages: Java, C, Python, JavaScript, SQL, HTML/CSS

Technologies: React.js, Express.js, MongoDB, Node.js, Spring, Raspberry Pi, OpenCV, Azure, Linux, Bash, Git, MySQL

Projects

Yum 🍷

JavaScript, MongoDB, Express.js, React.js, Node.js | Dec 2020 - Jan 2021

- Won 3rd Place in Cisco Webex Virtual Hackathon out of hundreds of projects
- Full stack web application built with **MongoDB**, **Express**, **React**, and **Node.js**, that aimed to reduce food waste
- Implemented core site features using **React**, **CSS**, and **Bootstrap**, improving appeal and user experience
- Built and maintained **REST APIs** for key site features. Certain APIs utilized **JWTs** for authentication
- Used **bcrypt** to hash passwords, and stored the hashes in a database to improve user security

CryptoPi 🍷

Python, JavaScript, MongoDB, Express.js, Node.js, Flutter | Oct 2020 - Dec 2020

- A hardware wallet and companion web and mobile apps that allowed users to exchange real **Ethereum cryptocurrency** with just a tap
- Used **Python** and a Raspberry Pi to process key wallet interactions such as reading data from **NFC** tags and processing transactions
- Transferred wallet and transaction data to a **Node.js** and **Express.js** web server. The data would then be served on companion **web and mobile apps**
- Implemented facial authentication using **OpenCV** and **Azure's Face API**, improving transaction security

Smart Control 🍷

Java, Spring | Jul 2020 - Aug 2020

- Web app that allowed users to interact with and collect data from a Raspberry Pi and its sensors
- Used **Java** and the **Spring Framework** to create a backend that handled the app's core features
- Worked with **Thymeleaf** to serve web pages made with **HTML** and **CSS**

Employment History

Summer Day Camps Counselor/Volunteer

2016 - 2019

YMCA Calgary

Calgary, Alberta

- Worked directly with **200+** youth (ages 6-13) over a 4-year period
- Often **collaborated** with other counselors in managing larger groups
- Handled many issues, minor and major, in accordance with company policy
- Organized weekly and daily activities ranging from sports, arts and crafts, and field trips for assigned group
- Facilitated camp wide events with **hundreds** of participants

Education

University of Waterloo

2020 - 2025

Bachelors of Software Engineering

3.9 GPA | 91% Cumulative Average

Awards

A.J. and Muriel G. Billes Scholarship

Recipient of one of fourteen annual scholarships based on academic achievement and community involvement

Waterloo's President's Scholarship of Distinction

Awarded for entrance average of 95+%