# Fei Lin

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#### Skills

Languages: JavaScript, Python, PHP, Java, C/C++

Technologies/Libraries: MySQL, React, Node/Express, MongoDB, Laravel, Spring Boot, Flask, Pandas

### **Experience**

**Exempt Edge** May 2021 - Aug 2021 Software Developer

Calgary, Alberta

• Full-stack software development on LAMP (Linux, Apache, MySQL, PHP) stack with the Laravel framework to create software solutions for those working in the private capital markets of Canada

- Designed, implemented, and integrated a new referral system in PHP using Laravel to replace and expand upon the previous method used by over 90,000 transactions in the system
- Optimized database queries through the use of **SQL joins** and hash tables, reducing end user latency by **2.5x** for high traffic pages

#### **Projects**

## Yum (7)

JavaScript, MongoDB, Express.js, React, Node.js

- · 3rd Place winner of the Cisco Webex Virtual Hackathon
- Full stack web application built with MongoDB, Express, React, and Node.js, that aimed to reduce food waste
- Utilized React to build many of the site's core frontend features such as the listings page, create listing popup, and registration pages
- Developed pipelines in Node.js to route API requests from food donators to recipients

# CryptoPi (7)

Python, OpenCV

- A hardware wallet and companion web/mobile app that allowed users to transfer percentages of real cryptocurrencies with just a tap
- · Wallet software written in Python to handle input, process incoming and outgoing transfers, and read another wallet's shared info through a tap between the two wallet's NFC tags
- · Facial authentication using OpenCV and Azure's Face API to improve transaction security

# **Question Answering AI**

Python, Colab

- Natural Language Processing using a 334M parameter BERT based model for question answering, wrapped with a flask web application where users can enter a passage, ask a question, and have the AI give an answer
- Fine tuned BERT (Bidirectional Encoder Representations from Transformers) model for question and answering using the SQuAD dataset with PyTorch

#### Education

**University of Waterloo** 

2020 - 2025

Bachelors of Software Engineering

3.95 GPA | 91.6% Cumulative Average

**Google Developer Group Edmonton** 

Machine Learning Bootcamp

Deep Learning, NLP, BERT, Decision Trees, Gradient Boosting