

Fei Lin

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Skills

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

Technologies: Git, Node, Express, React, Pandas, Airflow, Spark, MongoDB, Airflow, S3, Docker, TensorFlow, Flask

Experience

Wish

Jan 2022 - Apr 2022

Data Scientist

Remote

- Completed **analysis, data engineering, and general data science** tasks to drive data driven decisions on an e-commerce platform with **hundreds of millions** of monthly users and products
- Built **Airflow** data pipelines in **Python** to create and fill integral database tables with **millions of records** using **Spark, Presto, and Hive** engines to query and aggregate big data, addressing data needs and limitations
- Automated reporting of key business metrics such as store acquisition stats and shipment tracking using **Python, SQL, and Airflow**, reducing the manual workload for multiple teams
- Utilized **spaCy** and **Natural Language Processing** models to measure the semantic similarity between product text features using word embeddings

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 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
- Refactored and optimized **SQL** queries in combination with utilizing hash tables to reduce end user latency by **2.5x** for high traffic pages

Projects

Yum

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 be a food sharing platform, meant to facilitate the donation and receipt of food from donors to recipients
- Developed **REST API's** in **Node.js** to handle essential CRUD operations

CryptoPi

Python, OpenCV

- A hardware wallet and companion web/mobile app that allowed users to transfer percentages of real **cryptocurrencies** with just a tap
- Facial authentication using **OpenCV** and **Azure's Face API** to improve transaction security

Question Answering AI

Python, PyTorch

- Built question answering bot using **Natural Language Processing** and a **334M parameter BERT based model**, fine tuned for task with **PyTorch**
- Wrapped bot in a **flask** web application where users can enter a passage followed by a question, and have the AI give an answer

Education

University of Waterloo

2020 - 2025

Bachelors of Software Engineering

90.7% Cumulative Average

Google Developer Group Edmonton

2021

Machine Learning Bootcamp

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