

ALLEN(ZEYU) ZHANG

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[Github](#) | [Linkedin](#) | [Portfolio](#)

[London, Ontario, Canada](#)

EXPERIENCE

Full Stack Developer

Mozzaz Corporation

02/2021 - 06/2021 | Toronto, ON | [React.js](#), [Node.js](#), [Azure](#), [Docker](#), [Kubernetes](#)

- Developed frontend of MozzazTalk platform including video call, chat, email notification and SMS messaging, which has been used by **10k+ users**
- Applied **Chained Microservice design pattern** to build a server, **dockerized** with **kubernetes** and deployed live in **GCP Compute Engine**

Co-Founder & Software Developer

VpickU Inc

05/2017 - 09/2018 | Toronto, ON | [Link](#) | [Python](#), [AWS](#), [Kafka](#), [SQL](#), [Node.js](#)

- Led a team of **3** developers to build a blockchain ride-sharing app and successfully raised **\$25,000** from an angel investor
- Built a real-time GPS tracking program with latency of **5 ms** using **Kafka**
- Wrote **REST APIs** with **Node.js** and **PostgreSQL** and hosted them on **AWS EC2**

RESEARCH

EEG-based Emotion Recognition

Western University

09/2020 - 04/2021

- Completing a thesis paper on Emotion Recognition using EEG dataset and **CRNN** model under supervision of Dr. Boyu Wang
- Experimented with a **hybrid neural network** that combines **CNN & LSTM models** for emotion classification and reached accuracy rate of **93%**

PROJECTS

Landmark Recognition (2020)

[Github](#) | [React Native](#), [Node.js](#), [Express.js](#), [Tensorflow](#), [Python](#), [GCP](#)

- Built and Published a landmark recognition mobile app on Google Play Store with more than **1,000+ downloads** in a month
- Trained a **EfficientNet model** for landmark recognition with accuracy of **82%**

ML Trading (2020)

[Github](#) | [Bash](#), [Tensorflow](#), [Python](#), [GCP](#), [SQLite](#), [Sklearn](#)

- Built **LSTM models** to automatically trade 4 cryptocurrencies and achieved **12% monthly gains**
- Programmed trading execution classes with **multiprocessing**, which enabled up to **50 trades** at the same time
- Migrated trading APIs from **REST** to **gRPC**, which improved API performance by **5 times**

Kaggle ML Competition (2020)

[Github](#) | [Tensorflow](#), [PyTorch](#), [Python](#)

- Built a ML model with **XGBRegressor** to predict COVID19 cases for COVID19 Global Forecasting (Week 4) competition and ranked top **30%**
- Implemented a pre-trained **roBERTa model** with Jaccard score of **0.7** to capture sentiment in a language for Tweet Sentiment Extraction Competition

IuvoShare (2019)

[Google Play Store](#) | [React Native](#), [Node.js](#), [Ethereum](#), [Javascript](#), [Python](#), [GCP](#)

- Built and published a mobile app on Google play store with **100+ downloads**
- Used design patterns including **Observer**, **Factory** and **MVC** to design and develop backend server in **Node.js**
- Developed a **private Ethereum blockchain** and used **ERC20 tokens** as a payment method, which achieved **20 transactions per second**

EDUCATION

Master's in Computer Engineering

New York University

09/2021 - 05/2023 | New York, NY, USA

Bachelor of Computer Science

Western University

09/2016 - 05/2021 | London, ON, Canada

LANGUAGES

Python, Javascript

C, C++, Java, TypeScript

TECHNOLOGY & TOOLS

| Tensorflow | Sklearn | PyTorch | |
|------------|------------|---------|-------|
| SQL | PostgreSQL | MongoDB | Git |
| ReactJS | Node.js | Docker | Linux |
| Kubernetes | Jenkins | Kafka | Bash |
| Gradle | GCP | UML | Azure |
| gRPC | RabbitMQ | | |

CERTIFICATION

[Coursera - DeepLearning.AI](#)
Deep Learning Specialization

edX - IBM

Developing Cloud Native Applications
Developing Cloud App with Node.js and React

edx - Harvard CS50

Mobile App Development with React Native