

ALLEN(ZEYU) ZHANG

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

[New York, United States](#)

EXPERIENCE

Full-Stack Developer

Mozzaz

12/2018 - 09/2020 | Toronto, ON | [Link](#) | [Javascript](#), [Azure](#), [Docker](#), [Node.js](#)

- Architected and built **video call & chat microservices** for the Mozzaz Care app that has been used by more than **5 corporation customers** including one of the largest pharmacy, **CVS**
- Refactored Mozzaz Talk app's code that makes it compatible to **legacy browsers** like IE9 & 10 and improved **page time** by **24%**

Software Developer

Iuvo Ridesharing

04/2019 - 08/2017 | Toronto, ON | [Link](#) | [Docker](#), [K8s](#), [MongoDB](#), [Typescript](#)

- Used **Docker & Kubernetes** to build 3 microservices including payment, order, and authentication
- Built a **NATS Streaming server** as a **message broker** that enabled fast **asynchronous communication** among microservices

Co-Founder & Software Developer

VpickU Inc

03/2017 - 08/2017 | Toronto, ON | [Link](#) | [MySQL](#), [.NET](#), [HTML](#), [CSS](#)

- Cofounded a startup company that helped **hundreds** of new international students to settle in the new environment
- Built and deployed both **frontend & backend** of a **website** that provided various services including **airport pickup & city tour**

RESEARCH

EEG-based Emotion Recognition (2020-2021)

Western University

- Completed a thesis paper on emotion recognition using EEG dataset and **hybrid neural networks**
- Applied **Channel-wise Attention & Self Attention mechanism** with a **convolutional Recurrent Neural Network** for classifying emotions and achieved accuracy of **84%**

PROJECTS

Landmark Recognition (2020)

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

- Built and Published a landmark recognition mobile app on Google Play Store with **1,000+ downloads** in a month
- Used **transfer learning** to train a **EfficientNet** model for landmark recognition with accuracy of **82%**

ML Trading (2020)

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

- Built trading automation **microservices** that trade 4 cryptocurrencies and achieve **12%** monthly gains
- Developed **4 trading strategies** using machine learning models including **Random Forest** for Mean Reverting & Trend following, **word embeddings** for SEC filings & financial news and **CNNs** for satellite images
- Migrated trading APIs from **REST** to **gRPC**, which reduced latency for receiving data by **5 times**

EDUCATION

Computer Engineering

New York University

[08/2021 - Ongoing](#) | [New York, United States](#)

Computer Science

WESTERN UNIVERSITY

[09/2016 - 04/2021](#) | [LONDON, ON, Canada](#)

LANGUAGES

Python, Javascript, Typescript



C, C++, Java



TECHNOLOGY & TOOLS

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

HACKATHONS

Nwhacks

Worked in a 4-person team for 36 hours to build a mobile app for finding parking spots

EthWaterloo

Build a fraud-prevention app using face-recognition & Blockchain. Pitched final project in front of a judge of established blockchain founders

CERTIFICATION

Coursera - DeepLearning.AI

Deep Learning Specialization

edx - Harvard CS50

Mobile App Development with React Native

PROJECTS

Sentiment analysis NPM package (2021)

[Github](#) | [Tensorflow](#), [Python](#), [Typescript](#), [Node.js](#)

- Programmed and published a **node.js library** for sentiment analysis and extraction with **50+ downloads**
 - Developed **5 Deep learning models** for various sentiment analysis tasks including **GRU model** for news-stock sentiment prediction, **RoBERTa model** for sentiment extraction and **word embeddings** for financial documents that achieved accuracy of **80%+**
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IuvoShare (2019)

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

- Built and published a content-sharing mobile app on Google Play Store with **100+ downloads**
- Built a private blockchain network with **3 nodes** deployed on **GCP** Compute Engine and implemented **Proof of Stake consensus mechanisms** that achieve **200 transactions/s**