ALLEN(ZEYU) ZHANG

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Glthub | Linkedin | Portfolio

V London, Ontario, Canada

EXPERIENCE

Software Developer (freelancer)

12/2018 - 09/2020 | Python, Tensorflow, GCP, Docker, Jenkins, Kubernetes

- Built an AI chatbot with Dialogflow & Firebase, which supports 2 languages and used by more than 40 students
- Developed a fully-orchestrated CI/CD pipeline using Jenkins and Kubernetes with self-healing and autoscaling functionalities
- Trained a machine learning model using word embedding to capture Tweet sentiment related to stock market in real time and achieved accuracy of 71%

Co-Founder & Software Developer VpickU Inc

05/2017 - 09/2018 | Toronto, ON | Python, AWS, Kafka, PostgreSQL, 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 (ongoing thesis) Western University

- Completing a research paper on Emotion Recognition using DEAP 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, Javascript, 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 a trading program using 4 Random Forest models to automatically trade
 4 cryptocurrencies and achieved 15% monthly gains
- Programmed a multiprocessing framework to train up to 4 Random Forest models in parallel, which reduced model training time by 30%
- Built a real-time data preprocessing pipeline to convert time series data to information-driven data, and stored processed data in SQLite database

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, Express.js, Javascript, Python, GCP

- Built and published a mobile app on Google play store with 100+ downloads
- Developed a distributed network using Merkle Patricia Trie, PoS consensus mechanism and achieved transaction speed 30% faster than Bitcoin network

LANGUAGES

Python, Javascript

C, C++, Java

TECHNOLOGY & TOOLS

Tensorflo	ow .	Sklearn	PyTorch	1
SQL I	PostgreSQL		MongoDB	Git
ReactJS	No	de.js	Docker	Linux
Kuberne	tes	Jenkins	Kafka	Bash
Gradle	GCP	IBM	Cloud l	JML

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 system based on biometrics. Pitched final project in front of a judge of established blockchain founders

EDUCATION

Computer Science WESTERN UNIVERSITY

₩ 09/2016 - Ongoing

♥ LONDON, ON

Entrance Scholarship

GPA

3.7 / 4.0

CERTIFICATION

Coursera - DeepLearning.Al

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