Tianren(Silver) Zhang

tianrenz2.github.io - (949)2881281 - tianrenz@uci.edu

Education

University of California, Irvine
B.S • Computer Engineering • Graduation Date: June 2019 • GPA=3.166

Skills

Language: Python, Java, C++, C, Javascript, Golang, Solidity, SQL;
Technologies/Tools: Django, React, MySQL, MongoDB, Redis, Hadoop, Kafka, Ethereum, Docker

Experience

❖**Research Student**   *Institute of Future Health*.   June - Now 2018
• Implemented **background voice service** system and **text analysis** in a food journaling **Mobile tool**;
• Used **Realtime Database** on **Firebase** to dynamically store the food information and personal data;
• Implemented the dataset processing using **Pandas, scikit-learn and matplotlib**.

❖**Mobile Development Intern.**   *Shanghai Qiadao Internet Inc.*   February - June 2015
• Participated in **Android development** of question-answer platform;
• Built up **data transfer and processing** on Android clients, implemented **async loading**, **voice-to-text**;
• Maintained and debugged the Alpha and Beta, helped the app reach 20,000 users and 2,000 daily active users.

Side Projects

❖ **Blockchain Development: Decentralized Photograph Auction Platform**   September - Now 2018
• Built up a **decentralized photograph auction** website with **Blockchain** technologies;
• Stored and managed distributed media files using **InterPlanetary File System**;
• Made **Smart Contracts** with **Solidity**, deployed them with **Truffle** and used **Ganache** to test contracts;
• Developed **frontend** using **React framework**, used **Web3** for interaction between frontend and **blockchain**;
• Successfully deployed and tested the website on the **Rinkeby Network** of **Ethereum**.

❖ **Full-Stack Development: Note-Trading Platform[MVC, Django, MySQL, AWS]** March - August 2016
• Used **MySQL** as the database for long-term data storage and **Redis** for data caching.
• Developed backend using **Django,** deployed the webserver using **uWSGI** and **Nginx** on **AWS EC2**;
• Developed the **Android** mobile app and **website frontend** using **jQuery** and **Bootstrap**.

❖ **Distributed Computing: Product Analysis[Python, Hadoop, EMR, Docker]**   May - June 2018
• Implemented analysis of one million ratings of groceries from Amazon dataset using **MapReduce**;
• Used **Docker** to simulate local **Hadoop Cluster** and used **MRJob** to run python **Mapreduce** program;
• Used **AWS EMR** to run the whole dataset across 16 virtual machines.

❖ **Mobile Game Development[UE4, C++]**   June - October 2016
• Implemented a 3D mobile game using **Unreal Engine 4** in a team of three;
• Developed AI enemy character that could navigate to the player's location using **A* search**;
• Deployed the game on **IOS** and **Android**.

Honors

• UCI Blockathon (Blockchain Hackathon) - The First Place   October 2018
• SD Hacks 2018 - Best Neural Gaming Prize   October 2018

LinkedIn: linkedin.com/in/tianrenz/   Github: https://github.com/tianrenz2