

ZIJUN TIAN

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EDUCATION

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| Cornell University, Cornell Tech <i>Master of Engineering in Computer Science</i> | Aug 2020 - May 2021 New York, NY |
| Zhejiang University, College of Computer Science and Technology <i>Bachelor of Engineering in Software Engineering</i> | Sept 2016 - June 2020 Hangzhou, China |

TECHNICAL SKILLS

Coding Language: JavaScript, Python, TypeScript, HTML, CSS, Java, C/C++, SQL
Tools/Frameworks: React.js, Vue.js, Koa.js, Electron, React Native; Flask, PyTorch, Elastic Search
Infrastructure: Terraform, Packer, Ansible, Docker, MongoDB, proficient in AWS

EXPERIENCE

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- TuSimple, Database Infra, Software Engineer**, San Diego, CA. June 2021 - present
- Individually design, implement and manage the company's wide storage infrastructure including **MongoDB, PostgreSQL, DynamoDB** and **Hive** (S3 with Parquet and Glue) using **Terraform, Packer** and **Ansible**.
 - Developed and maintained the workflow platform with scheduler supporting more than 8000 jobs per day.
 - Developed **MongoDB** based DBaaS database management service using **Flask** and **Vue**, serving more than 600 databases and 20 TB data across the departments.
 - Build AWS based data consumption pipelines for auto-trucks including multi-type storage, **Presto**, and **Looker** dashboard.
- Tencent, Software Engineer Intern**, Shenzhen, China. June 2020 - Aug 2020
- Built vulnerability scanning center to show and process security works and data based on **Egg.js, MySQL** and **React**.
 - Developed a Internet-connected devices search engine with **3 billion** data entries using **React, MySQL** and **Elastic Search**.
 - Optimized the **Elastic Search** and reduce the average search latency from **2000ms to 500ms**.
- Hong Kong Applied Science and Technology Research Institute, Research Assistant**, Hong Kong SAR. July 2019 - Oct 2019
- Developed a decentralized and secure multi-media messenger, ChainChat, using **React Naive, Ethereum** and **Filecoin**.
 - Applied **named-data networking** routing and Solar File System combined with **Ethereum** Whisper protocol to the system, which is **150%** faster than normal UDP broadcast solutions.
- DIDI, Software Engineer Intern**, Hangzhou, China. Nov 2018 - Mar 2019
- Developed mobile-end margin retreat components based on **Vue** and deployed nationwide being used for **20,000** drivers.
 - Optimized the resources with lazyload and cache and reorganized the data flow, improving the page loading time by **35%**.

PROJECTS

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- Chairshare**, (JavaScript, React, Egg.js) Dec 2020 - May 2021
Matching existing excess office spaces with companies to form meaningful relationships within industries. (Cornell Tech Startup Studio)
- Talentaster**, (JavaScript, Python, React, Flask, Azure, CosmosDB, ML modeling) Mar 2021 - Mar 2021
An mobile app that can tell you if a watermelon is tasteful. (Cornell Digital Agriculture Hackathon 2021)
- MiniTorch**, (Python) Sept 2020 - Dec 2020
A hand-made, pure and simple re-implementation of PyTorch in Cornell CS5781 Machine Learning Engineering.
- CC98**, (TypeScript, C#, React) Sept 2016 - June 2020
CC98 is the online BBS of Zhejiang University founded in 2002, with more than 300,000 registers and 4000 DAU.
- Developed a campus online BBS website and PWA based on **React** and **Material UI**, after beta testing, improved the page loading time from **2.5s to 1.5s** in average, and improved PWA's loading speed by **80%** by deploying service work.

PUBLICATIONS & CERTIFICATES

Lingling L., Jianhai C., **Zijun T.**, Qiming H., Butian H., Yang X., Zhenguang L. 'EduCoin: Secure and Efficient Payment for MOOC Environment' accepted by **IEEE Blockchain** 2019
AWS Certified Developer - Associate | AWS Certified Solution Architect - Associate