

# ZIJUN TIAN

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## EDUCATION

**Cornell University, Cornell Tech**, New York, NY Aug 2020 - May 2021  
*Master of Engineering in Computer Science* | GPA: N/A  
**Relevant Coursework:** Algorithms for Applications, Security & Privacy in the Wild, Network and Markets, Machine Learning Engineering

**Zhejiang University, College of Computer Science and Technology**, Hangzhou, China Sept 2016 - June 2020  
*Bachelor of Engineering in Software Engineering* | Major GPA: 3.92/4.0  
**Award:** He Zhiyun Honor Class, "Zhejiang News-Alibaba" Geek Scholarship

**University of British Columbia, College of Electrical and Computer Engineering**, Vancouver, Canada July 2018 - Aug 2018  
*Summer Program* | GPA: 3.8/4.0

## TECHNICAL SKILLS

**Coding Language:** JavaScript, TypeScript, HTML, CSS, Java, C, C++, C#, Python, SQL  
**Operating Systems:** Windows, Linux  
**Other Tools:** React.js, Dva.js, Egg.js, Electron, React Native, Ethereum, Hyperledger

## EXPERIENCE

**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 car equipment management system's **Webpack** configuration and make scripts **40%** smaller.
- Optimized the resources with lazyload and cache and reorganized the data flow, improving the page loading time by **35%**.

## PROJECTS

**Zhejiang University CC98 Online BBS**, (TypeScript, C#) Sept 2016 - Present  
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.

**Personalized Education Service Transaction and Supervision System**, (JavaScript, Hyperledger DSL) Mar 2018 - Mar 2019  
Next generation decentralized MOOC platform, developed by InCAS Lab.

- Developed a **React** front-end project for a digital education personalized service platform based on blockchain
- Programmed smart contracts that can handle high volume scenarios of course payment on Ethereum and **Hyperledger**.

**VolunteerX**, (JavaScript) July 2018 - Dec 2018  
A blockchain public welfare platform can record the flow of public funds, standardize and trace it.

- Built a web application using smart contracts on **Hyperledger** as the back-end, with a **React** front-end
- The project won Third Prize in the Zhejiang University Challenge Cup, Third Prize in the National College Blockchain Contest, and was also selected for the Zhejiang News-Alibaba Geek Scholarship

## PUBLICATIONS

Lingling L., Jianhai C., **Zijun T.**, Qinming H., Butian H., Yang X., Zhenguang L. 'EduCoin: Secure and Efficient Payment for MOOC Environment' accepted by **IEEE Blockchain** 2019