

Zichun Cai

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EDUCATION BACKGROUND

Hong Kong University of Science and Technology

Hong Kong

Master of Science in Information Technology

Sept.2022 - Dec.2023

❖ GPA: 3.5/4.0

❖ Courses: Advanced Algorithm, Advanced Computer Network, Object-Oriented Programming, FinTech, etc.

Sun Yat-Sen University, Guangdong, PR China

Guangzhou, PR China

Bachelor of Engineering in Information Engineering

Sept.2018 - June.2022

❖ GPA: 3.7/4.0

❖ Courses: Information Security, Computer Network, Statistical Signal Processing, Information Theory, etc.

PROFESSIONAL EXPERIENCES

Skyland Innovation Technology Co., Ltd

Hong Kong

Research Assistant - Backend Development Intern

June.2023 - Sept.2023

- ❖ Designed and integrated a multi-currency reimbursement system into the OA system, providing functions such as multi-currency settlement, reimbursement documentation generation, etc.
- ❖ Implemented exchange rate crawling with JSoup, contributing to multi-currency settle according to different date.
- ❖ Constructed front-end webpage with VueJS, offering a tabular interface and provided functions such as data import and export.
- ❖ Developed back-end API with Springboot for storing, editing, and deleting reimbursement data in MySQL, providing functions such as real-time data storage, multi role management, complex reimbursement documentation generation.
- ❖ Deployed the system with Nginx for load balance, and built a testing environment to help the company to standardized the development process.

PROJECT EXPERIENCES

Research on Blockchain-Based Digital Rights Management

Individual Project - Graduation Design in SYSU

Feb.2022 - June.2022

- ❖ Applied the Shazam algorithm to generate the originality proof of music, to protect the music copyright stored in the management system.
- ❖ Based on a private chain of Ethereum to construct a blockchain-based digital audio copyrights management prototype-system.
- ❖ Developed the function of Audio Audit, Copyright Record, Copyright Assignment, Copyright Purchase and so on in this system.

Research on Zero-knowledge Proof Technology in Modern Secure Communication

Outstanding Project in Innovation and Entrepreneurship Training Program of SYSU

June.2021 – Nov.2021

- ❖ Completed an anonymous electronic voting system using the zk-SNARK scheme combined with the Merkle tree
- ❖ Sorted out the mainstream zero-knowledge proof technology after 1985 and formed a summary
- ❖ Constructed the aircraft's trajectory monitoring system and ensured that the aircraft's position information would not be exposed based on the underlying principle of zk-SNARK
- ❖ Formed the manuscript of the paper "Simplified zk-SNARK-based trajectory monitoring system"(in preparation)

HONORS AND AWARDS

- ❖ The College's Outstanding Project of the Student's Platform for Innovation and Entrepreneurship Training Program of SYSU 2021.12
- ❖ Academic Scholarship Second Prize, awarded by SYSU 2020.10
- ❖ Mathematical Contest in Modeling Successful Participant 2020.03
- ❖ Academic Scholarship Third Prize, awarded by SYSU 2019.10
- ❖ Third Prize of Guangdong Province in National Mathematical Modeling Contest 2019.10

SKILLS SUMMARY

- ❖ **Programming Language:** Java, Golang, C++, JavaScript, Bash, SQL, Solidity, Python
- ❖ **Framework:** Springboot, JSoup, Vue.js, Web3.js, Node.js
- ❖ **Tools:** Linux, GIT, Docker, Geth, Visual Studio Code