YOUZHANG (MARK) SUN

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SKILLS

Languages	Python, Java, C, Rust, JavaScript, SQL
Technology	Node.js, React (Native), Nest.js, Prisma, PostgreSQL, Rocket.rs (Rust), Ethereum blockchain, ethers.js, WalletConnect, Git, SVN, Linux
Academic Interest	Theory of Computation, Theoretical Math, Lambda Calculus

EXPERIENCE

Lodestone | Game Server Self-Hosting | Backend & Frontend Developer | GitHub   December 2021 – Present
Rust, Rocket.rs, zip-rs, MongoDB, React
- Co-designed and developed desktop client in **Rust** with **MongoDB** for data storage. Implemented **RESTful API** & CLI for interactions
- Realized file upload, download, extract, compress, and size limit for the Rust client with **zip-rs**
- Implemented hardware monitoring and visualization on a web dashboard with **React** and **react-chartjs-2**

dApp Technology Inc. | Backend & Frontend Developer   January – August 2022
JavaScript, Node.js, Nest.js, React Native, ethers.js, blockchain, WalletConnect, Prisma, PostgreSQL
- Implement **blockchain** interaction in **React Native** with **ethers.js** to enable for ERC20 token transactions on Ethereum-based blockchain on mobile
- Integrated **WalletConnect** for app to communicate with decentralized applications (dapp)
- Developed **RESTful API** endpoints with **Nest.js**, alongside **Prisma** for **PostgreSQL** database interactions

University of Toronto | Teaching Assistant for CSCB36 | GitHub   May – August 2021
Python, Java
- Grading ~60 tests weekly with little oversight.
- Hosting office hours on fundamental theory of computation
- Implementing brute force script to investigate Lemoine's conjecture on the side

TD Securities | Developer   January – April 2021
Java, MS SQL, Python, Pandas, JavaScript
- Took over and complete on-going **Java** data processing application through effective communication with client
- Implement **MS SQL** interaction and data processing with associated libraries such as java.sql, **Python Pandas**
- Gained appreciation from colleague for timely update and fast development

LUDOTest-C | Designer and Developer | GitHub   January – April 2020
- Designed and developed unit test functions for C for simple testing
- Shared code and example with classmates that enabled them to write testing for future assignments

EDUCATION

University of Toronto | Candidate Honours Bachelor of Science   2019 – 2023/4 (Estimated)
- Specialist (Co-operative) Program in Computer Science – Software Engineering Stream
- Cumulative GPA: 3.97