Jiaming Xu

1205 W 37th Dr, Los Angeles, CA 90007

🌐 blobming.github.io   ✉ xujiamin@usc.edu   in linkedin.com/in/JiamingXu-v2/   📱 (213) 476-5757

EDUCATION

University of Southern California   **Los Angeles, CA**
M.S. in Computer Science   *Expected Graduation: Dec 2021*

Hebei University of Technology   **Tianjin, China**
B.S. in Computer Science   *Graduation Date: Jun 2019*

PROFESSIONAL EXPERIENCE

Trade League   **New York City, NY**
Software Engineer Intern   *May 2021 – Present*

- Experiencing **Domain-Driven-Design (DDD)** design principle
- Develop **Restful API** with **Rust** programming language, **Actix Web Framework**
- Develop **Microservices** and core functionalities with **Rust** programming language
- Configure and build a **High-Availability** server cluster with **NATs** implemented with the **Raft** algorithm for **Event-Sourcing**
- Configure **Bitcoin** and **Ethereum** node clients connecting to the Main Network
- Experiencing with **Docker** for containerization of all service and **Google Compute Platform** for **IAAS**

University of Southern California   **Los Angeles, CA**
Full Stack Student Programmer Assistant   *Feb 2020 - May 2021*

- Develop the Back-end **Restful API** for USC The Graduate School System with **C# .NET Framework**
- Develop the Front-end User Interfaces for USC The Graduate School System with **JavaScript jQuery** and **React Framework**
- Schedule data importing and processing task with **Python** and **SQL** Script embedded in **Apache Airflow** to gather around 50MB data daily from various departments
- Design **MS-SQL Database** table structure with **star/snowflake schema** and manipulate data with SQL script
- Utilize **Git** and **Azure DevOps** Server to implement automated project building and deploying stages

Sinosoft Co.,Ltd.   **Tianjin, China**
Software Engineer Intern   *March 2019 – June 2019*

- Developed the Back-end **Java Web Applications** with **Spring framework** and Front-end pages with **JavaScript JQuery Framework**
- Fetched data from various online data providers with **Java RPC framework**, including identity verification
- Developed an AI-Utility with **Python Tensor-Flow** Library to recognize verification code and reached up to 91% accuracy

PROJECTS

Website for USC Chinese Graduate Student Association [Java, MySQL, Docker]   *Jun 2020 - Present*

- Configure **AWS Virtual Cloud Server** to host the website programs and **MySQL** database
- Experiencing **AWS lambda function** to fetch data from Google Spreadsheets and **firebase** to store QR code picture
- Develop the **Restful API** with **Java Spring Boot Framework** and generate proper API document with **Swagger** library
- Integrate the whole website into **Docker** containers with **Docker-file** for better developing and configuring usage
- Write **GitHub Pipeline** Configuration file to implement automated project building and deploying stages

Wennix - A Simple Operating System [C, x86 Assembly]   *Jun 2020 – Aug 2020*

- Wrote critical functions in **Process, Thread, Scheduling and System Booting** in kernel mode for **Wennix** based on **QEMU**
- Implemented **System Call** functions with polymorphic design to manage **virtual file system** with reference counting mechanism.
- Completed **virtual memory map** and running a full operating system to manage **user address space**, **user-level** code.

Decentralized Transaction System [Blockchain, Java, RPC, Android]   *Dec 2018 - Jun 2019*

- Designed a schema in **Berkeley Database** to store blocks and transactions
- Developed Front-end pages with **JQuery** Framework to view and search transactions and balance in real time
- Used **Java Socket** and **Multi-threading** technologies to implement **P2P** network and provide **RPC service** for client
- Implemented **Threading pools** in Java to increase the service durability
- Developed a light-weight **Android Wallet Application**, for users to transfer and view balance

SKILLS

- Relevant Coursework: Distributed System, Operating System, Database System, Web Technology, Algorithm, Computer Network
- Leadership: Leader of Technology Department in USC-CGSA, Chinese Graduate Student Association
- Programming Languages: Java, Python, Rust, C#, Go, C/C++, JavaScript
- Frameworks: SpringBoot, ASP.NET, Actix, Flask, Django, React.js