# Jiaming Xu

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## 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

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

- 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 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

**IT Consultis**                                                                                        **Shanghai, China**
*Front-end Developer Intern*                                                                      *Jun 2017 – July 2017*

- Developed a mobile app called VeTime with JavaScript Front-end React framework and PHP Back-end service
- Queried data from various third-party service providers with their Restful API including Weather and Geo location information
- Wrote a web crawler in Python to gather over 15k reported issues from customers and used it to trace and fix 99.8% bugs

## PROJECTS

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

- Configure Amazon Virtual Private Server to host the website programs and MySQL database
- 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/C++`]**                                                *Jun 2020 - Aug 2020*

- Implemented critical functions in Process, Thread, scheduling and system booting
- Implemented critical functions in Virtual File System including file links and file table
- Implemented Virtual Memory Map and Copy-On-Write mechanisms

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

- Designed a schema in Berkeley Database based on 3NF to store blocks and transactions
- Developed Front-end pages 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

**Network File Storage System [JavaScript, Python, Flask]**                                     *Dec 2017 - May 2018*

- Provided a web application based on Flask framework for users to upload, download, share and view files online efficiently
- Developed web page to present user's file hierarchy, which allows users to drag, search and move files
- Configured server cluster with NFS, DRBD and Heartbeat in order to increase the availability of the whole application

## SKILLS

- Relevant Coursework: Data Structures and Algorithms, Operating System, Database, Computer Network
- Leadership: Leader of Technology Department in USC-CGSA, Chinese Graduate Student Association
- Programming Languages: Python, Java, `C#`, `C/C++`, JavaScript
- Frameworks: Spring, ASP.NET, Flask, Django, React.js