Xin Jiang

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Education

- **University of Wisconsin - Madison** — Madison, WI
  Bachelor of Science in Computer Science — *Sep. 2016 - Dec. 2019*
  - Certificate in Mathematics
  - Certificate in East Asian Studies
  - Dean's List

Skills

CS Classes: Algorithms; Data Structure; Operating System; Artificial Intelligence; Relational Databases; Software Development Engineering; Computer Network; Computer Security; Distributed Systems; Linear Programming

Language: Java; JavaScript; Python; C; C++; SQL; Matlab; Kotlin

Tools & Frameworks: Spring Boot; Spring Cloud; Vue.js; Node.js; Git; Nginx; Webpack; Vim; Unix Shell

Experience

- **BrainCo, Inc.** — Somerville, MA
  Software Engineer Internship — *July 2019 - Sept 2019*
  - Co-designed an authorization services using Kotlin, **OAuth 2.0** authorization flow and **Spring Security**.Tested the system with **Postman** within a group of three
  - Refactored the current login system of the company with **Spring Cloud**, **Kotlin**, and **PostgreSQL** relational database
  - Redesigned some RESTful APIs by adding Reactive and Co-routine features to maximize the speed and lower the response time, especially when the server taking large amount of accesses
  - Built a service discovery and fault tolerance service with Consul and Netflix Hystrix to guarantee the availability of the whole Distributed System in the Spring Cloud framework
- **Shandong Jianzhu University** — Shandong, China
  Full Stack Developer Internship — *Jun. 2016 - Aug. 2016*
  - Developed a new Administration System UI for the University with **Vue.js**. Worked mainly on the Employee Attendance Management feature and tested the functionality within a group of ten
  - Co-designed the back-end management features using **Node.js**, including login and modification of records. Fully tested and functional

Projects

- **Summit Strength and Fitness Customer Management System**
  - Co-designed a management system for fitness center, using **React.js**, a **JavaScript** MVVM style framework
  - Implemented a back-end system, including **RESTful APIs** using **Node.js**
- **XV6 OS Projects**
  - Added Multi-level Feedback Queue Scheduler to the OS kernel to reduce the average response time and prevent starving of processes
  - Implemented a framework based on **MapReduce Algorithm**, which distributes the work to multiple threads or servers to reduce the processing time of a task
  - Added support for multi-threading to XV6 Kernel using **C** to enhance the program processing speed
  - Implemented a file system checker to XV6 Kernel to keep the consistency of the file system
- **Auction Base System**
  - Developed a back-end system to receive and process requests using **Python**
  - Deployed a **MySQL** database which works with the system to keep the data safe and easy to get
- **Security Hacks Projects**
  - Developed a program that tries to attack other programs that are vulnerable to buffer overflow attacks on X86 platform and get root access using **C++**
  - Designed a program that attacks vulnerable websites by SQL injection to get access to admin panel
  - Refactored a program with new security mechanisms that prevents the buffer overflow and SQL Injection attacks