Zixiang (Sean) Wang

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EDUCATION

Syracuse University Syracuse, NY Aug 2021 - May 2023
M.S. in Computer Science

Hefei University of Technology China Sep 2017 - Jun 2021
B.S. in Computer Science

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, Kotlin, SQL, JavaScript, HTML, XML, Shell, Markdown

Frameworks: Spring, Django, React, AWS, GCP, Firebase, Jenkins, GitHub Actions, Docker, Android, Numpy, PyTorch, Nginx, MkDocs, Jekyll, Tkinter, Qt, Linux, Git

EXPERIENCE

Software Engineer Intern iSoftStone Spring, Java, MySQL Jul 2020 - Sep 2020
Developed **back-end APIs** *for* **data visualization** *platform serves inside company.*

- Designed and developed **RESTful** API for authentication and data portal module with **Spring** and **Java**.
- Created **Threads** with **Asynchronous Programming** to improve performance.
- Built storage system with **MySQL** and **XML**.
- Implemented **Navicat** to manage database, and used **Postman** for testing API.
- Tracked changes with **SVN** and deployed project with **Jenkins** on server.

PROJECT

Auto TBOX Data System Spring, Java, React, JavaScript, Python, MySQL
Developed **full-stack** *website for vehicles faults* **data analysis** *and* **visualization** *for a* **Fortune 500** *campany.*

- Devised and constructed **RESTful** API for 12 modules with **Spring** and **Java**.
- Set up **MySQL** on **VPS** and using **Navicat** to manage database, and **Postman** for testing API.
- Developed front-end website with **React**, visualized real-time statistics, trending, distribution, etc.
- **Collated** and **analyzed** vehicles faults data fetch by API interface with **Python**.
- Built a **web crawler** with **Python** fetching vehicles configurations for a better presentation.

Airline Ticket System Django, Python, HTML, SQLite3, CSS
Developed **full-stack** *website for airlines to sell their tickets, focused on* **back-end** *and* **deployments**.

- Designed and developed **RESTful** API for tickets, users and admin modules with **Django** and **Python**.
- Deployed system with **Nginx** server on **VPS** for presentation.
- Built front-end website with **HTML** and **CSS**, and using post method to call API.
- Implemented **SQLite3** and use **Navicat** to manage database.

Notepad C/C++, Qt, RegExp
Developed a **Qt** *Notepad IDE to highlight C++ keywords, or any keywords you like.*

- Created Bloom Filter started from a Bit Filter of char array of length 875, can hold up to 700 keywords.
- Set-up total of **10 Hash function** to lower the **mismatch-tolerant under 0.1%**.
- Import highlight keywords from **local files**, making it mutable to build up your own keywords library.
- Developed with some **Qt Widget**, capture words with **RegExp**, and derived QSyntaxHighlighter class for highlighting keywords as blue.
- Implemented some basic functions as a Notepad like **new, open, save, exit** and **copy, paste, cut, undo, redo**.