Haiyu Wan

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EDUCATION

Washington University in Saint Louis, School of Engineering & Applied Science Saint Louis, Missouri **Master of Computer Science & Engineering** Jan. 2019 – Jan. 2021 Lanzhou University Lanzhou, China Sep. 2013-May.2017

Bachelor of Science

CERTIFICATES

Washington University in Saint Louis Graduate Certificate in Data Mining & Machine Learning Saint Louis, Missouri Jan. 2021

TECHNICAL COMPETENCIES

Theories: Advanced Algorithm, Data Structure, Object-Oriented Software, Machine Learning, Cloud Computing, Data Mining, Database management,

Computer Skills: Java, C++, Python, Kotlin, Spring Boot, Linux, HTML, CSS, PHP, JavaScript, Linux, Amazon EC2, AWS, MySQL, Mongo Db, Spark, Hive, Hadoop, Git/GitHub

WORK EXPERIENCE

Gansu Wanwei Information Technology Co. Ltd.

Gansu, China

Software Engineer Intern (Full Stack)

Aug. 2018 – Dec. 2018

- Designed and implemented the College Student Course Selection system and create UI.
- Built and designed the Student component, Subject component, Authentication and user management component, with Abstract factory Pattern, Singleton Pattern, Observer Pattern, Adapter Pattern, and other System Design Patterns.
- Designed and implemented the relational database table with MySQL.
- Implemented **REST API** using **Spring Boot framework** to support request from sponsored events.
- Built the interface of each user with JavaScript, PHP, jQuery, HTML, CSS.

China Telecom Corporation Limited.

Gansu, China

Software Engineer Intern (Data)

May. 2019 - Sep. 2019

- Developed a pipeline operation for data pre-processing by using NumPy, Pandas in Python.
- Designed geo-location clustering by implementing k-means in Spark and deployed to AWS EMR with S3 bucket to handle big data of telecom in Lanzhou.
- Extracted operation feature relationships using Hive. Visualized and analyzed the clustering results and target area's operation features with the team using Python Plotly and Tableau.

PROJECT EXPERIENCE - WASHINGTON UNIVERSITY IN ST. LOUIS

Android App for Kanban

- Designed and built the Android Application of Kanban with **Kotlin** and **NoSQL database firestore firebase**.
- Added the Gesture processor, Animation and Imagine processor API to make the application easier to manipulate for
- Use MVVM pattern to separate view and application algorithm, which allow easy revolution in the future.
- Implemented function of view location in map by using Google Map API.

Chat room website

- Built Multi-room Chat Server with Node.js and AWS EC2 Instance.
- Implemented different APIs to make user create and join different chat rooms and let user to chat in their channel in real time by using Node.js and Socket.io.
- Designed and implemented the Database with MySQL to store user accounts and history of message.

Database Management

- Built database systems with Java and implemented basic database operations and persistence.
- Implemented functions in **SQL database** and NoSQL database **Mongo DB**.