

JIAQI YAN

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EDUCATION

MSc. Social Computing, Xi'an Jiaotong-Liverpool University **Sep 2022 – Apr 2024 (Excepted)**

Notable Modules: Data Mining and Big Data Analytics, Social Network Analysis, Cloud Computing

BEng. Internet of Things, Dalian Neusoft University of Information

Sep 2017 – Jun 2021

Notable Achievements: Ranking 10/122 in major, won Third Prize Scholarship; Merit Student; Excellent Teaching Assistant

EXPERIENCES

Research Assistant, Xi'an Jiaotong-Liverpool University **Oct 2022 – Present**

- The collaborative work of heritage: Dataware as a means to support articulation work of abstract heritage data
- Conducting cultural heritage data collection and cleaning, selecting NLP model to extract text data as triadic relationship

Apache ShardingSphere, OpenSource Contributor

Apr 2022 – Present

- Optimize the native parsing of 40+ SQL syntax in Oracle, PostgreSQL, OpenGauss in ShardingSphere SQL Parser Engine
- Use Antlr 4 to parse the SQL statement into an abstract syntax tree, add test cases to ensure its accuracy
- Fix SQL parser bugs, improve test coverage and update official documentation

Cisco, Software Engineer, Intern

Apr 2022 – Jun 2022

Related Tech: Spring Boot, Spring Security, Python Scripts, Low-Code Platform

- Created a dialogue bot for user-friendly to operate the client system directly through the Instant Messaging Software *WebEx*
- Communicated with the Low-Code Bot Platform team, designed bot dialogue logic (e.g., intents, actions) and display
- Developed new permission and RESTful APIs for bot, completed query, approval, and download contract operations
- Wrote Python scripts to format received JSON data and populated the Adaptive card for display

IBM, Application Developer, Regular

Jul 2021 – Jan 2022

- Assisted in the establishment of new projects and completed part of the project management work
- Communicated with overseas colleagues to complete data collection and collation work
- Used automated Low-Code tool to substitute manual test efficiency, improved testing efficiency by 50%

Kingland, Software Engineer, Intern

Sep 2020 – Apr 2021

Related Tech: Spring Boot, MyBatis, PostgreSQL, Angular, AWS Service, Jenkins

- Independently responsible for the workflow of employee promotions and linking to the performance module of the HR system.
- Designed page layout, database table structure, and 20+ APIs for 200+ staff to apply, update, send, and complete promotion
- Integrated AWS features for timed tasks, monitoring, password security function and deployed, tested the functions
- Used Jira and Github for Agile development, resolved 20+ bugs/requirements, performed tests and wrote release documentation

SKILLS

Languages: Chinese: native, English: CET-6, working proficiency

Programming: Competent in Java, knowledge and experience in C, Python, SQL, etc

Other Tools: Cloud Service using experience, Linux, Low-Code/No-Code Platform, Git, Markdown & Latex

Technology Preference: Infrastructure Software (e.g. SQL parser engine in database system)

ACTIVITIES

- 2023 CHI Student Design Competition: *Participated in the design of AR Exploration Game*
- 2022 Open Source Promotion Plan mentee: *Solved unsupported Oracle SQL for ShardingSphere Parser (passed final review)*
- 2022 Spring Forward with her Program mentee: *Shared and communicated with STEM girls (40% acceptance rate)*
- 2021 IBM AI Initiation Activity Volunteer: *Conducted STEM course clarification for primary and middle students*

Update: 02/04/2023