LU WANG
Software Engineer

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SUMMARY

Have a mixed background in software development, data science, research, software testing, and human resource management. Had 2+ years of professional software development experience and 2+ years of software testing experience. Led small engineering team and collaborated with Fortune 500 large enterprises.

SKILLS

- **Technical Skills**: Python, JavaScript, Java, MySQL, MongoDB, Redis, Flask, Vue, React Native, Azure, AWS
- **Certification**: Data Science Bootcamp (2019)
- **Publication**: Integrating a Voice User Interface into a Virtual Therapy Platform (CHI EA '21, https://doi.org/10.1145/3411763.3451595)

EXPERIENCE

ZHINENG TONGZHENG TECHNOLOGY   **Remote from the US**
Software Engineer   **2021-Present**
- Coded 3 data platform projects --- data collection, data prediction, and image detection.
- Coached interns on data processing and machine learning projects, which enabled 1 intern to get a return offer.
- Coordinated with customers, designers, and developers to reduce project lead time from 6 months to 4.5 months.

NEUSOFT   **Shanghai, China**
Software Testing Engineer   **2010**
- Conducted behavioral testing and fix validation that covers 2 major sub systems of Industrial Bank of China.
- Designed database schema for the test result, shared new queries and stored procedures to team members and improved overall productivity by 50%.
- Constantly guided developers with insights of bug fixes, reduced job probation time from typical 6 months to 3 months.

SHANGHAI CHUWA SOFTWARE CO., LTD   **Shanghai, China**
Software Engineer   **2007-2010**
- Coded information systems for Japanese stock exchange companies, including information retrieval and customer authentication backend. Optimized the system and achieved 20% increase in search efficiency.
- Schemed the test cases, performed white-box tests and gray box performance tests. Proposed automated testing tools to optimize test case design, increasing self-test speed by 30%.

PROJECT

E-commerce Data Analysis Platform   **2022**
- Designed front-end and back-end systems, authored 30% of the backend in Java and deployed the backend web services into the test environment.
- Redesigned a python-based ETL system that expanded data sources from 1 to 5, increased prediction accuracy by 30%.
- Developed an analysis platform which supports 50+ types of data visualizations using Spring Boot and Vue.

News and Social Data Analysis Platform   **2021-2022**
- Maintained an ongoing Flask-based data platform, and created a new Spam filter module using Python.
- Developed a multilingual address recognition system, using Google Cloud API, Stanford language recognition module, Chinese language segmentation module Jieba, and self-collected data, achieved accuracy of 75%.
- Implemented image classification and search functions for a specific domain with 70% accuracy by applying an improved linear regression model.
- Combined with the Baidu AI for video analysis, processed and labeled 100+ video samples.
- Applied Docker to deploy distributed API services with a load balancer in Linux environment, shortening the iteration time by 60%.

Video Data Collection Platform   **2021-2022**
- Coached 2 interns to develop ETL, data analysis and visualization, using Python, Flask, MySQL, MongoDB, JavaScript and Vue.
- Leveraged Redis to ensure timely delivery of 10K + data collection tasks and visualized real-time tasks progress using 4+ flow charts.
- Guided the customers to deploy the system onto different cloud platforms and implement cross-cloud data transmission using Alibaba Cloud Object storage service and Tencent Cloud Object storage service.

COCOBOT- voice chatbot app   **2020-2021**
Collaborated with researchers from UW nursing school, co-built virtual therapy platform aimed to help anxious parents who look after children with congenital disorder.
- Established conversational stress-relief routines using Alexa Skill to empower users in multitasking scenarios.
- Built a text-based chatbot mobile app via React Native to provide graphical user interface to assist voice functions, improving fluency by 70%.
- Adopted AWS S3 to share data between smart speakers and mobile platforms, reducing data storage cost by 50%.
- Integrated personalized recommendations based on user preferences stored in Firebase, increasing user stickiness by 20%.
- Published a paper on usability and engineering discoveries in CHI (Conference on Human Factors in Computing Systems).

EDUCATION

UNIVERSITY OF WASHINGTON   **Seattle, WA**
Master of Science, Major in Technology Innovation   **2019-2020**

GALVANIZE DARA SCIENCE BOOTCAMP   **Seattle, WA**
Certificate of Data Science Immersive   **2019**

XIDIAN UNIVERSITY   **Xi'an, CHINA**
Bachelor of Science, Major in Electronic Information Science and Technology   **2003-2007**