

LEI ZHU

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Profession Summary

Accomplished Software Engineer specializing in full-stack development, with a robust skill set in Java, Python, and C. Adept at steering cross-disciplinary teams and overseeing comprehensive project timelines. Unwavering commitment to code quality, aligned with industry best practices. Established leader in operational efficiency and strategic process enhancements, underpinned by a relentless pursuit of technological advancement and business scalability.

Education

University of Illinois at Urbana-Champaign

Master of Science in Information Management

Champaign

Expected: May 2024

Courses: IS 507 Data, Statistical Models, and Information, IS 525 Data Warehousing & Business Intelligence

University of Electronic Science and Technology of China

Bachelor of Engineering in Computer Science and Technology

Chengdu

Jul 2023

GPA: 3.73/4.0

Courses: Data Structure & Algorithms, Software Engineering, Computer Operating System, Computer Networks

Work Experience

DiDi Chuxing

Beijing

Software Engineer Intern

Jul 2022-Jan 2023

- Utilized Java and Spring Boot to develop a microservice for real-time data collection, enhancing the granularity and accuracy of driver and insurance claim information.
- Integrated Apache Kafka for message queuing, ensuring real-time and reliable data transmission between microservices.
- Employed Git for version control, maintaining high code quality and facilitating collaborative development.
- Implemented Jenkins for continuous integration and deployment, automating the testing process and increasing development efficiency.

Susallwave

Shenzhen

Software Development Intern

Feb 2022-Jul 2022

- Utilized Java and Spring Boot to enhance backend logic, implemented JWT for user authentication, and applied RBAC to streamline administrative tasks, collectively bolstering platform security and data processing efficiency.
- Employed React, Redux, and Material-UI for frontend development, enhancing UI complexity, user engagement, and overall user experience.
- Used MongoDB for storing PDF data and automated data scraping, facilitating seamless platform integration and enabling user search and edit capabilities.

China Mingsheng Banking Corp., Ltd

Chengdu

Financial Data Analyst

Jul 2021-Oct 2021

- Credit Risk Assessment:** Conducted in-depth evaluations of loan and credit line applications using machine learning algorithms, successfully identifying high-quality candidates with a 95% accuracy rate.
- Data Analysis:** Performed historical financial data analysis using advanced statistical methods in R, pinpointing key areas for departmental improvement and revenue growth opportunities.

Projects & Activities

University of Electronic Science and Technology of China

Design and Implementation of an Automatic Scoring System for Translation

Mar 2023 - Jun 2023

- Utilized ArXiv API to collect scientific texts, serving as the data foundation for translation exercises. Integrated iFlytek API for Chinese-English translation, ensuring high-quality, domain-specific output. Employed MarianMTModel for term extraction, enhancing the system's NLP capabilities.
- Developed the backend in Python, orchestrating data flow and algorithmic functions. Used the Requests Library for seamless API interactions, facilitating real-time data exchange.
- Implemented a multi-threaded GUI to ensure smooth user interaction and real-time feedback, enhancing the system's responsiveness and user experience. Created a custom scoring algorithm to evaluate translations on four metrics: complexity, semantic integrity, fluency, and accuracy.

University of California, Riverside

Data Science and its Application in Finance and Big Data

Jul 2022 - Aug 2022

- Utilized Python's Scrapy, Pandas, and NumPy for data collection and cleaning, scraping customer reviews from JD Mall and removing duplicates.
- Stored cleaned data in Hadoop HDFS and performed OLAP analytics using Apache Hive.
- Conducted text preprocessing and feature engineering using custom Python scripts and Word2Vec, creating word vectors and index tables.
- Built and trained an RNN model with LSTM layers in TensorFlow, leveraging AWS EC2 for cloud-based computation.
- Visualized model performance and achieved high accuracy in sentiment classification through Matplotlib, providing valuable business insights.

Ohio State University

Natural Language Processing and Public Opinion Monitoring,

Jun 2022 - Jul 2022

- Utilized Python with Pandas and Numpy for data manipulation and preprocessing, creating dataframes to store tweet data and stock prices.
- Employed NLTK and Spacy for sentiment analysis, and used Scikit-Learn's RandomForestRegressor for stock price prediction based on sentiment scores.
- Applied Matplotlib for data visualization to compare actual vs predicted stock prices, and explored CNN and RNN for potential accuracy improvements.
- Achieved high accuracy, demonstrating the correlation between public sentiment and stock price movement.

Skills

Microsoft Office, Python (Numpy, Pandas, Pytorch, Machine Learning), JAVA, Springboot, Javascript, R and C, MySQL/Hive SQL, Tableau, ETL, AWS, MongoDB, Kafka, Git, Jenkins, React, Redux, Data Analysis