Xiaojing Wang

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Portfolio: https://xiaojing-lucky.github.io/

CAREER SUMMARY

Results-driven **Data Engineer** with hands-on experience in designing, building, and maintaining scalable data pipelines and ETL workflows. Proficient in **Python, SQL, and cloud-based data solutions**, with expertise in integrating **RESTful APIs, EDI, and NetSuite** for seamless data processing. Adept at **data modeling, database optimization, and dashboard development**, transforming raw data into actionable insights. Passionate about improving system efficiency, troubleshooting complex data issues, and collaborating across teams to drive data-driven decisions.

TECHNICAL SKILLS

- **Programming & Scripting**: Python, SQL, Java, JavaScript, PHP
- **Data Engineering**: ETL, Data Warehousing, Data Modeling, Pipeline Automation
- **Databases & Cloud**: MongoDB, MySQL, PostgreSQL, AWS (RDS, S3, Redshift), Snowflake
- **Big Data & Analytics**: Power BI, Google Analytics, Spark, Hadoop
- **APIs & Integration**: REST API, SOAP API, EDI (AS2, SFTP), NetSuite
- **Tools & Platforms**: Linux, Docker, Git, Kubernetes

WORK EXPERIENCE

Karat by Lollicup INC.   DFW, U.S.

Data Analyst – Python, SQL, REST API, AWS, NetSuite, Power BI   *Aug 2022-Jan 2025*

- Designed and implemented **automated ETL pipelines**, optimizing data ingestion from multiple sources (EDI, APIs, databases) into NetSuite and internal reporting systems.
- Developed custom data models and warehouse solutions in AWS RDS and Snowflake, reducing query execution time by 40%.
- Built and optimized **RESTful APIs** to integrate transactional data between NetSuite and internal systems, ensuring data accuracy and consistency.
- Led database performance tuning, indexing, and query optimization for high-traffic analytical workloads.
- Developed interactive **Power BI dashboards**, enabling real-time insights into business operations and trends.
- Enhanced **data security measures** by implementing **AS2, SFTP**, and other encrypted protocols for secure data exchange.

Wuhan Yuanguang Science & Technology Co., Ltd.   Wuhan, China

Data Specialist– Excel, SQL, , Data Modeling   *Jan 2018-Apr 2019*

- Conducted in-depth **data analysis and modeling** to optimize urban bus route efficiency across multiple cities.
- Led a **team of three** in implementing **algorithmic models** to improve the accuracy of public transportation data.
- Designed and maintained **relational databases**, ensuring seamless data integration and reporting.

PROJECT EXPERIENCE

User Management System– Node.js, MongoDB, REST API, AWS, Python
https://github.com/Xiaojing-Lucky/User_management
- Dveloped a scalable user management system using **Node.js** and **MongoDB**, ensuring efficient user authentication, authorization, and role management.
- Designed **RESTful APIs** to perform **CRUD operations**, optimizing query performance and ensuring data integrity.
- **Implemented event-driven logging** to track user actions and stored logs in a **MongoDB-based data lake**, enabling behavioral analysis.

Data Pipeline for E-Commerce Analytics – Python, SQL, AWS Lambda, S3, Redshift
- Developed an end-to-end **ETL pipeline** that processes and loads transactional data into **AWS Redshift** for real-time analytics.
- Implemented **data validation scripts** in Python to ensure data quality and integrity.

Photo-Album Using PHP and MySQL – PHP, AWS, MySQL, HTML, CSS
- Built a **photo-sharing platform** with secure user authentication and AWS-based storage solutions.

Library Management System – MySQL, Java, JDBC
- Designed a **normalized relational database** and implemented triggers for overdue and renewal notifications.

RESEARCH EXPERIENCE

Research Assistant (Professor: Dr. Kathy Lee)   *Mar 2021-Jan 2022*
- Analyzed large datasets on dementia patients and caregivers, using **SQL and Python** to derive key behavioral insights.
- CoPartnered with aging organizations across the U.S. to **optimize data-driven decision-making** in support programs.

EDUCATION

Master of Science in Computer Science   *May 2022*
The University of Texas at Arlington, TX, U.S.
Bachelor of Engineering in Software Engineering   *Jul 2017*
Minor in Accounting
Xi'an University of Finance and Economics, Xi'an, Shaanxi, China
Academic English Program   *May 2020*
The University of Texas at Austin, TX, U.S.