Wanyi Su

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Personal Website: https://wanyisu.netlify.app/ • GitHub: https://github.com/suansuan0915

SKILLS

Languages: Python, SQL (SnowSQL, MySQL, PostgreSQL), Scala, NoSQL (Cassandra), MATLAB, R, bash scripting.

BI and Other Software: Tableau, Snowflake, Databricks, SVN, Git, Alteryx, Docker, Kubernetes, Control-M, Jupyter Notebook, IntelliJ, MS Office.

Frameworks and Libraries: PySpark, Spark Scala, Airflow, Kafka, Hadoop; pandas, NumPy, Sklearn, Matplotlib, Seaborn, PyTorch; Flask.

Cloud Platform: Azure (DevOps, Machine Learning, Databricks), AWS (EC2, S3, Redshift).

Certificates: Microsoft Certified: Azure Data Scientist Associate, CFA level 2.

EDUCATION

EDUCATION	
Simon Fraser University Burnaby, BC, Canada	Sep 2021 – Jan 2023
M.S. in Computer Science - Big Data (GPA: 4.0/4.33)	
Johns Hopkins University Baltimore, MD, United States	Jul 2016 – Aug 2017
M.S. in Finance	
Southwestern University of Finance and Economics Chengdu, China	Sep 2012 – Jun 2016
Major in B.A. in Marketing; Minor in B.E. in Finance	

WORK EXPERIENCE

Environics Analytics | Toronto, ON, Canada

May 2023 - Dec 2023

Data Engineer

- Led weekly update and maintained the cloud based ETL pipeline for a real-time mobility data product using Airflow.
- Refactored and optimized an ETL pipeline for a geospatial product using tools (Azure DevOps, Airflow, Alteryx) and languages (SnowSQL, Python).
- Conducted testing and anomaly detection by machine learning and statistical modeling in Databricks and Snowflake.
- Automated and visualized data quality check process (hard & soft QC) and data flow monitoring by designing Tableau dashboard.
- Drafted technical documentation for two products, and cooperated with technical/non-technical stakeholders about product statuses/issues.

SFU Computing Science School | Burnaby, BC, Canada

Sep 2022 - May 2023

Graduate Teaching Assistant (Part-Time)

Insurance Corporation of British Columbia (ICBC) | North Vancouver, BC, Canada

May 2022 - Sep 2022

Data Engineer Intern

- Developed and maintained an ETL data pipeline in Spark Scala with 100% accuracy to facilitate data migration.
- Implemented data validation using SQL queries to extract large scale data from different databases (Oracle, Drill, Hive).
- Applied software engineering best practice during the pipeline building process, including unit testing, shell scripting, CI/CD automation using Jenkins, version control using SVN, etc.).
- Built **Tableau** dashboards to provide varying levels of visualization for stakeholders and automate data quality monitoring.
- Collaborated with internal and external stakeholders in Agile environment (Scrum meetings, JIRA, Kanban board).

Morgan Stanley | Baltimore, MD, United States

Jan 2018 - May 2018

Operations Data Analyst

- Analyzed 20+ derivatives trading transaction data daily. Created Tableau dashboards and presented to clients and directors.
- Queried from internal database using MySQL, quantified risk metrics and developed KRI reports using v-lookup, pivot table.
- Streamlined internal risk management processes and improved drafting time by 20%. Led weekly conference calls with Asian teams.

PROJECTS

Music Distributed Microservice Application Project

Mar 2022

- Built a music containerized application, including 3 microservices, running within Kubernetes cluster on AWS EKS.
- Implemented **REST** requests between local machine and **DynamoDB** with functions of reading, creating, editing, deleting.
- Scaled and tested the application by load testing using Gatling simulation to observe accuracy, latency, system utilization, and health of
 system mesh of the microservices under small, medium, and large request load scenarios.
- Visualized and quantified the performance metrics using Kiali, Grafana dashboard, and Prometheus.
- Managed the project using Scrum and Kanban in a team with 3 teammates and applied version control using GitHub.
- Explored failure scenarios and tested with remediation to inspect multiple system evolving.