Wanyi Su

+1 778-319-9915 • wysujhu@gmail.com • Burnaby, BC, Canada

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

SKILLS

Languages: Python, SQL (MySQL, PostgreSQL), JavaScript (Node.js), Scala, NoSQL (Cassandra), Java, MATLAB, R, bash scripting.

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

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

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

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

EDUCATION

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

WORK EXPERIENCE

SFU Computing Science School | Burnaby, BC, Canada

Sep 2022 to Present

Graduate Teaching Assistant (Part-Time)

• CMPT 726 - Machine Learning, CMPT 105W - Social Issues and Communication Strategies in CS)

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

May 2022 - Sep 2022

Data Engineer (Internship)

- 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 (Full-Time)

- Analyzed 20+ derivatives trading transaction data daily. Created Tableau dashboards and presented to clients and directors.
- Modeled derivatives product pricing and transactions with the application of Black-Scholes Pricing Models.
- 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, European teams and collaborated with other business divisions.

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.

YouTube Trending Video Prediction Project

April 2022

- Built a data pipeline to retrieve updated trending video data in Python on demand.
- Implemented **K-Means** and **hierarchical clustering models** to analyze keyword texts.
- Presented interactive EDA analysis in Tableau dashboards, and built a data product (a website) to help YouTubers produce trending videos.