Homayoun "Homa" Banazadeh

homayoonbanazadeh@gmail.com | (778) 232-9525 | Vancouver, BC
Portfolio | Github | LinkedIn

Profile

- Experienced data professional with a technical aptitude for data-driven solutions. Proficient in languages such as Python, R, and SQL, with a deep understanding of data analysis, engineering, and visualization tools like Power BI and Tableau. Well-versed in cloud platforms, including Azure and AWS.

Technical Skills

- **Languages:** Python (NumPy, Pandas, Matplotlib, Scikit-learn, statsmodels, NLTK, Beautiful Soup), R(dplyr, ggplot2, tidyr, , xgboost, tm, Shiny, RMarkdown), Java, Scala, SQL (PostgreSQL, SQL Server).
- **Tools:** AWS, Azure, Docker, Git, Hadoop Ecosystem, Jupyter Notebooks, Power-BI, Spark, Tableau.
- **Azure Ecosystem:** Data Lake Gen 2, Transact-SQL commands, Synapse, SQL Pool, Data Factory, Stream Analytics, Databricks Notebooks, Security Measures, Monitoring, Active Directory.

Experience

Software Support Analyst | Western Stevedoring   Sept 2021 - Apr 2023

- Built data models and utilized **Power BI** query editor in addition to **DAX** to create KPI reporting **dashboards** used by teams of over 20 people to view live reports of KPIs. Link to dashboards found here: Link
- Developed a **Python**-based **Automated Data Wrangling Pipeline** tailored to handle monthly financial Excel files, which were often irregularly formatted and required thorough scripting due to loose filling guidelines. Implemented robust quality assurance (**QA**) tests to validate data accuracy. Additionally, conducted staff training sessions and authored **comprehensive documentation** covering project maintenance, risk mitigation, and potential challenges.
- Conducted extensive **software research**, gathered stakeholder requirements through in-person interviews, and evaluated multiple solutions through vendor demos. Produced a recommendation report that guided the company's decision to invest $10,000 annually.

Data Engineer | ICBC   Sept 2019 - Apr 2021

- Contributed to cost-controllable report pipelines, achieving a 10% reduction in corporate costs. Developed and tested big data pipelines using **Spark/Scala**, referencing IBM's Data Stage. Authored **data mapping documents** and actively participated in code reviews and data quality testing.
- Processed extensive SQL logic containing hundreds of lines to develop new transformations in Spark and **translated** the SQL scripts into various dialects.
- Completed a course covering Spark's Resilient Distributed Datasets, Data Frames, and Datasets. Acquired Scala proficiency to develop and execute Spark jobs using Scala, IntelliJ, and SBT. Explored Spark technologies like Spark SQL, Data Frames, Datasets, Spark Streaming, ML. Link to course found here: link

Education

Simon Fraser University   Sept 2018 – Aug 2022
BSc. – Major in Data Science | Certification in Computing Studies (School of Applied Sciences)

- **Relevant Courses**: Machine Learning, Data Mining, Data Structures & Algorithms, Object Oriented Programming, Linear Optimization, Intermediate Sampling, Databases.
- **Relevant Online Courses:** Linux Crash Course - Data Warehouse Fundamentals - Apache Spark with Scala Hands On with Big Data – DP-203 - Data Engineering on Microsoft Azure 2023
- **Achievements**: Dean's Honour List, SFU Transfer Scholarship, led a team of 50 student tutors in daily shifts and planned Data Science, Statistics and Discrete Math workshops that boosted grade averages.

Projects

Package Manager | Demo found here: link   Aug 2022 – Oct 2022

- Achieved an average score of 98% across all four iterations of the app development process.
- Package Manager is an inventory management application to add, save, load, and remove various package types. UI was made using Java **Swing** with sections for adding/removing packages and viewing expired/overdue packages. Data is saved on server side as a **JSON list**. Server side was made with **Spring Boot** framework. Client code sends and receives data and instructions using **HTTPS requests** with **CURL commands** and **API calls**.