

Homayoun Banazadeh

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PROFESSIONAL EXPERIENCE

Data Quality Coordinator

Aug 2022 - Present

ChainXY

Vancouver, BC

- Performing data quality assurance tasks on output from our scripts that involve verifying geographic accuracy of locations, ensuring that relevant data is included in our updates, and validating those changes to datasets are indeed correct.
- Responding to customer requests for support around the library and addressing any issues/requests on a timely manner.
- Updating/Editing scripts used to collect data in Python, while staying up to date with the latest web scraping technologies.

Software Analyst

Sep. 2021 - Apr. 2022

Western Stevedoring

North Vancouver, BC

- Developed a Python-based automated data pipeline tailored to handle monthly financial Excel files, which were often irregularly formatted and required thorough scripting due to loose filling guidelines.
- Applied 50+ QA tests in Python that increased the system's code coverage by 34% and helped validate the data.
- Built data models utilizing Power BI query editor and DAX to create KPI dashboards used by over 10 people.
- Led staff training sessions and authored documentation covering maintenance, risks, and challenges.
- Conducted software research and gathered stakeholder requirements over interviews, which led to producing a report that directed the company's decision to invest \$9,000 annually.

Data Engineer

Sep. 2020 - May 2021

Insurance Corporation of British Columbia(ICBC)

North Vancouver, BC

- Migrated legacy pipelines from IBM DataStage, retaining data sources from SAP and the Enterprise Data Warehouse, to a modern Hadoop implementation using Spark and Scala, resulting in a 60% improvement in data memory access speed.
- Implemented CI/CD pipelines using Jenkins to automate deployment and testing of data processing workflows, resulting in improved task scheduling, monitoring, and optimized controllable cost hierarchies.
- Authored 7 mapping documents enabling the team to grasp transformations without delving into complex SQL logic.

EDUCATION

Bachelor of Science in Data Science, Minor in Computing Science

Sep. 2018 - Aug. 2022

Simon Fraser University

Burnaby, BC

- Dean's Honor List, SAP Invitational 2022 Hackathon Ranked 5/35, CELPIP English Exam Overall 10/12.

Azure Data Engineering Certification

Oct. 2023 Dec. 2023

Microsoft - Result: 88/100

Vancouver, BC

- Data Storage (40%), Data Processing (30%), Data Security (15%), Monitoring and Optimization (15%).

TECHNICAL SKILLS

Databases & Cloud Ecosystem: SQL Server, PostgreSQL, AWS(Glue,Kinesis,Lambda) Azure (Synapse Analytics, Data Factory, Event Hubs, Stream Analytics, Key Vault, Active Directory, Databricks. Azure Functions)

Hadoop Ecosystem: HDFS, MapReduce, YARN, Hive, Spark, Scala

Languages & Tools: Tableau, Power-BI, DAX, Python(NumPy, Pandas, Keras, TensorBoard, Scikit, Matplotlib, Selenium), R(Dplyr,Tidyr, Caret, Ggplot2, Shiny, Httr), Java(OOP,JSwing,cURL, Tomcat, SpringBoot), C++, Scala, Jenkins, Docker

Machine Learning & Deep Learning: Boosting, Bagging, Ensembles, Regression, Supervised/Unsupervised Learning, RNNs, LSTMs, CNNs, Image/Text Classification, Hyperparameter Tuning, Deep Learning Design Architecture, Generative AI

Web Technologies: HTML/CSS, JavaScript, Bootstrap, Git, Flask, React, LaTeX

PROJECTS

Package Manager | Java, Client/Server model

Aug. 2022 - Oct. 2022

- Built 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 overdue packages.
- Employs Factory and Adapter design patterns for handling packages efficiently to ensure that packages are created and managed consistently while preventing unnecessary resource duplication.
- Data is saved on server side as a JSON list. The server side was made with the Spring Boot framework. The client code sends and receives data using HTTPS requests with CURL commands and API calls.

Mastering Data Wrangling in SQL: A Comprehensive Guide

Published at 2024-07-14

- Medium article about Data Wrangling, Window functions, and SQL relationships interview prep [here](#).

Portfolio

- Visit my portfolio at HomayounBanazadeh.netlify.app to view a demo, the codebase and technical reports for projects.