Alireza Rahnama

St. John's, Canada | +1 709 327 7030 | alirezarm@mun.ca
alireza-rahnama.github.io | linkedin.com/in/alireza-rahnama-8a9333186 | github.com/alireza-rahnama

WORK EXPERIENCE

Software Developer | Verafin - Nasdaq AFC | St. John's, NL | 09/2022 - 04/2023
- Developed Behavior-based analytical software to detect ACH illicit activities used by 3000+ financial institutions.
- Achieved over 95 percent reduction in SQL query time from 20+ minutes to under 1 minute by implementing performance optimization techniques.
- Implemented fault-tolerant solutions using JUnit and Mockito unit test frameworks.
- Debugged production failures by QA testing and monitoring the analytics' logs using Bash scripting in Amazon Systems Manager.

Data Scientist | Hibernia EOR Group - ExxonMobil | St. John's, NL | 05/2022 - 08/2022
- Automated the ETL process of the drilling data from multiple data formats using Python and Apache Spark.
- Executed agile exploratory data analysis and visualization techniques to identify and resolve data anomalies.
- Unified time and depth-based data sets with inconsistent frequencies using Python and SQL scripts.
- Implemented and evaluated linear and ensemble machine learning and neural network models to predict drilling metrics in Azure Databricks.

Facilities Supervisor | Memorial University | St. John's, NL | 08/2021 - 04/2022

PROJECTS

React Full Stack Application Project | 2023
Reminder App

Object Oriented Programming in Java Projects | 2022
King Domino: a GUI game
Mind The Gap: a GUI game
Image Extractor: a GUI application that filters the areas of interest in an image
Shape Detector: a GUI application that detects lines and circles in an image

Web Application Development | 2022
Personal Website

Machine Learning Projects | 2022

K-Neighbors Classifier	Random Forest Classifier
Linear Regressor	Auto Price Prediction
Lasso Classifier	

Personal Python games | 2020
Blackjack | Tic-Tac-Toe | Rock-Paper-Scissor | Hanoi Tower

SKILLS

Programming languages: Java, Python, JavaScript, Spark, Scala, Bash, Splunk, C, C++
Web development: React.js, HTML5, CSS, Node.js, jQuery, Bootstrap
Unit Testing: JUnit, Mockito
Data analytics & visualization: Power BI
Database Management: SQLite, PostgreSQL, MongoDB
Version Control: Git & GitHub CI/CD: Jenkins, Gradle, Docker, Kubernetes
Cloud Computing: Azure Databricks, AWS
Operating Systems: Linux/Unix, macOS, Windows
Visual Computing: OpenCV, TensorFlow Tools: Docker, IntelliJ, VS Code, Jupyter Notebook, Colab Notebooks, Jira

EDUCATION

Memorial University of Newfoundland
B.Sc. Computer Science
09/2020 - 12/2023 | Dean's List

Memorial University of Newfoundland
M.Sc. Oil & Gas Engineering
01/2018 - 10/2019 | Best Project Award

Azad University
B.Sc. Petroleum Engineering
09/2011 - 06/2015 | Top Student

CERTIFICATES & TRAININGS

Amazon Web Services Cloud Practitioner | Pluralsight
React 17: Getting Started | Pluralsight
Splunk: Fundamentals | Splunk - NYC
Unit Testing with JUnit 5 | Pluralsight
Java SE 8 Programmer | Pluralsight
Python & Machine Learning | ACENET
Complete Web Development | Udemy
Complete Python Bootcamp | Udemy