

ALIREZA RAHNAMA

St. John's, NL | 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

Co-developed analytical software to kick off at the data import time and detect ACH illicit activities used by 3000+ financial institutions.

Developed new features to enable users set risk thresholds in the application's UI.

Reduced the query times by 95 percent utilizing common table expressions and implementing SQL best practices.

Implemented inclusive unit tests using JUnit and Mockito 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.

Collaborated in an interdisciplinary team to remedy anomalies via exploratory data analysis and data visualization.

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

Full Stack React Reminder Application | 2023

Object Oriented Programming in Java Projects | 2022

King Domino : GUI Game

Mind The Gap : GUI Game

Image Extractor: a GUI application that filters the areas of interest in an input image based on the threshold that the user defines.

Shape Detector: a GUI detector for lines and circles in an image

Personal Website | 2022

Machine Learning & Deep Learning Projects | 2022

K-Neighbours Classifier

Random Forest Classifier

Linear Regressor

Auto PricePrediction

Lasso Classifier

Personal Python games | 2020

BlackJack

Tic-Tac-Toe

Rock-Paper-Scissors

Hanoi Tower

SKILLS

Programming languages: Java, Python, JavaScript, Spark, Scala, Bash, Splunk, C, C++

Web development: HTML5, CSS, Node.js, React.js

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

Bachelor of Science in 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

Revenue Management | Hilton