Alireza Rahnama

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# 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