

ALIREZA RAHNAMA

Software Developer

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WORK EXPERIENCE

Software Developer | Verafin - Nasdaq AFC | St. John's, NL | 09/2022 - 04/2023

- Developed robust behavior-based analytical software to detect ACH fraudulent transactions used by 2500+ financial institutions.
- Reduced the query times by up to 95 percent from 20+ minutes to under 1 minute by implementing SQL optimization techniques.
- Implemented fault tolerant solutions using JUnit and Mockito unit test frameworks.
- Debugged production failures via 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 Environmental Services Supervisor | Memorial University | St. John's, NL | 08/2021 - 04/2022

- Oversaw and delegated tasks to a team of 30+ employees and ensured adherence to health & safety standards.
- Managed payroll and tracked employee leave balances.

PROJECTS

- **Reminder App:** A full stack React.js application contained in Docker which record tasks and alert the user.
- **Java Arcade:** A collection of Java GUI games: King Domino and Mind the Gap.
- **Threshold Vision:** A Java GUI application that extracts the area of interest in an image based on the user defined threshold.
- **Shape Detector:** A Java GUI application that detects lines and circles in an input image.
- **Personal Website:** Developed website using Vanilla JavaScript, HTML, jQuery, Bootstrap, and embedded Twitter API.
- **Machine Learning Projects:** 4 data science projects implemented utilizing K-Neighbors Classifier, Random Forest Classifier, Lasso Classifier, and Linear Regressor.
- **PyFun:** A collection of Python games: Blackjack, Tic-Tac-Toe, Rock-Paper-Scissors.

SKILLS

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

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

Unit Testing: JUnit, Mockito

Data Analytics & Visualization: Power BI

Database Management: SQLite, PostgreSQL, MongoDB

Version Control: Git & GitHub

CI/CD: Jenkins

Cloud Computing: Azure Databricks, AWS

Operating Systems: Linux, macOS, Windows

Visual Computing: OpenCV, TensorFlow

Software Tools: Docker, Kubernetes, IntelliJ, Gradle, VS Code, Jupyter Notebook, Gradle, Jira

EDUCATION

B.Sc. Computer Science

Memorial University of Newfoundland
09/2020 - 12/2023 (Dean's List)

M.Sc. Oil & Gas Engineering

Memorial University of Newfoundland
01/2018 - 10/2019 (Best Project Award)

B.Sc. Petroleum Engineering

Azad University
09/2011 - 06/2015 (Top Student)

CERTIFICATIONS

C/C++ as Second Language | ACENET

AWS 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