

# ALIREZA RAHNAMA

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## Professional Experience

**Software Developer** | Verafin | St. John's, NL | 09/2022 – Present

**Data Scientist Intern** | Memorial University | St. John's, NL | 05/2022 – 08/2022

- Developed python scripts to extract drilling data from multiple formats including XML, DLIS, LIS, LAS, ASC, PDF
- Performed exploratory data analysis to cleanse the data.
- Merged time based and depth based datasets with different frequencies.
- Used SQL for data engineering and visualization of Exxon's Azure Data Lake.
- Designed and assessed machine learning and deep learning models to predict drilling rate of penetration and optimize mechanical specific energy on Azure Databricks in a collaboration between Memorial University researchers and industry partners from ExxonMobil and HMDc.

**Facility Supervisor** | Memorial University | St. John's, NL | 08/2021 – Present

- Demonstrated excellent problem solving, teamwork and leadership spirit in supervising the facilities' maintenance and environmental services operations.

**Operations Supervisor** | ServiceMaster | St. John's, NL | 08/2020 – 09/2021

- Scheduled and supervised the performance of the employees

**Housekeeping Supervisor & Duty Manager** | DoubleTree by Hilton |

St. John's, NL | 07/2018 – 01/2021

- Demonstrated strong attention to detail in customer service delivery and maintaining deadlines

**Petroleum Engineer** | Petro Zagros Day | Tehran, Iran | 10/2016 - 10/2017

- Performed economic feasibility analysis and reserves estimate through simulation in CMG suite and MATLAB programming.

## Projects

**Academic Object-Oriented Programming projects in Java** | 2022

- King Domino: a GUI game
- Mind The Gap: a GUI game
- Intensity Thresholding: a GUI that outputs the areas of interest of an image
- Circle & Line Detector: a GUI that detects lines and circles of an image

**Personal website** | 2022

**Academic and professional machine learning and deep learning projects** | 2022

- Used K-Neighbors Classifier to model, train, and predict the class of the output
- Analyzed linear and non-linear models such as Linear Regressor, Lasso, and Random Forest Regressor to select models and predict data output

**Personal Python games** | 2020

- Implemented Blackjack, Tic-Tac-Toe, Rock-Paper-Scissors, and Hanoi Tower in Python

## Skills

**Programming languages:**

Java, Python, JavaScript

**Web development:**

HTML5, CSS, Node.js

**Artificial Intelligence:**

Machine Learning & Deep Learning

**Unit Testing:**

JUnit test

**Data analytics & visualization:**

Power BI

**Database management:**

SQLite

**Version Control:**

Git & GitHub

**Visual Computing:**

OpenCV

## Education

**Bachelor of Science in Computer Science** |

Memorial University of Newfoundland |

St. John's, NL | 09/2020 – 12/2023 (Dean's list)

**Master of Science in Oil & Gas Engineering** |

Memorial University of Newfoundland |

St. John's, NL | 01/2018 – 10/2019 (Best presentation award)

**Bachelor of Science in Petroleum Reservoir Engineering** | Azad University | Shiraz, Iran |

09/2011 – 06/2015 (Top student)

## Certificates and Trainings

**Python and Machine Learning Workshop** | ACENET | 2022

**Complete Web Development Bootcamp** | Udemy | 2021

**Complete Python Bootcamp** | Udemy | 2019

**Reservoir simulation with CMG suite** | The European Association of Geoscientists and Engineers | 2019

**Revenue Management** | Hilton Hospitality | 2019