ALIREZA RAHNAMA

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Professional Experience

Data Scientist Intern | Memorial University | St. John's, NL | 05/2022 – 08/2022
- Assisted in developing machine learning and deep learning software to automate drill bit grading, optimize mechanical specific energy and tripping speed of the drilling string within MS Azure cloud environment to improve safety, operational cost, and efficiency
- Demonstrated great attention to detail in extracting, manipulating, filtering, and analyzing real drilling data with a focus on predictive analytics
- Demonstrated excellent communication skills through collaborating in applied research projects between Memorial University (Engineering) and industry partners (ExxonMobil and CNLOPB)

Facility Management Supervisor | Memorial University | St. John's, NL | 08/2021 – Present
- Demonstrated excellent teamwork and leadership spirit in assigning and supervising facility maintenance 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 customer service delivery, maintaining deadlines, and keeping shifts adequately staffed

Petroleum Engineer | Petro Zagros Day | Tehran, Iran | 10/2016 - 10/2017
- Analyzed the economic metrics of oil reserves using reservoir simulation with CMG 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 the input image
- Circle & Line Detector: a GUI that detects lines and circles of the input 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