ALIREZA RAHNAMA

Software Developer

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WORK EXPERIENCE

Back-End Software Engineer | Verafin Inc. | St. John's, NL | 09/2022 - 04/2023

- Developed Return agent version 1.0 (Java, object-oriented, test-driven) to analyze illicit behavior, reducing return fraud by 40%. (Gradle, Jenkins, Docker, IntelliJ, Tomcat)
- Optimized Payment plugin by refining data collectors' algorithms, resulting in a 30% reduction in false negatives and saving clients over \$9M annually in potential loss.
- Enhanced **SQL** queries for 10M+ daily transactions using **Querydsl** and **PostgreSQL JDBC API**, reducing query times from 20+ to under 1 minute and slashing cloud costs by 95%.
- Conducted unit testing and QA testing via JUnit and Mockito to resolve potential problems early in SDLC, resulting in fault-tolerant software design and reduced QA costs.
- Automated tasks, analyzed logs, and troubleshot production failures leveraging
 Shell/Bash scripting, Java Service Wrapper, and Amazon Systems Manager (SSM.)
- Streamlined the software development life cycle by participating in code reviews using agile/scrum methodologies and tools such as Confluence, Salesforce, Git, GitHub.

Data Scientist | Hibernia EOR Group - ExxonMobil | St. John's, NL | 05/2022 - 08/2022

- Automated the ETL process and integration of 1TB+ of heterogeneous time and depthbased datasets with multiple formats leveraging **Python** and **Apache Spark SQL**, reducing data discrepancies and processing time by 90%.
- Resolved data anomalies via EDA and visualization, utilizing **Python** libraries (**NumPy**, **Pandas**, **Plotly**, **Matplotlib**, **Seaborn**) and **Power BI**, facilitating decision making in a crossfunctional team and increasing predictive model accuracy by 25%.
- Launched and fine-tuned machine learning algorithms leveraging Python libraries (Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch) in Azure Databricks, optimizing rate of penetration and reducing drilling costs by 15%.

Facilities Manager | Memorial University | St. John's, NL | 08/2021 - 04/2022

- Leveraged Python to automate admin tasks, reducing manual data entry by 1000+ hours.
- Directed 30+ employees, enforcing policies, reducing incidents, and increasing efficiency.

PROJECTS

- Movies App: Developed an end-to-end web application featuring a RESTful API leveraging Java Spring Boot and MongoDB Atlas for back-end and react.js for the front-end.
- Reminder App: Built a full-stack React.js app to manage tasks from a JSON file.
 Containerized with Docker and established CI/CD pipelines by GitHub and AWS Amplify.
- Java Arcade: Designed 2 Java GUI games: King Domino & Mind the Gap.
- Computer Vision: Implemented 3 Java image processing applications: Pixel Wizard,
 Threshold Vison, Shape Detector to augment pixels, extract features, and identify shapes.
- Personal Website: Launched a portfolio featuring a responsive design and embeded Twitter's API using Vanilla JavaScript, HTML, CSS, Node.js, jQuery, and Bootstrap.
- Machine Learning Predictive Projects: Designed 4 projects and trained models to successfully classify bioinformatics data, label clothing items, and predict automobile pricing using KNN, Random Forest, Lasso, Linear and Logistic Regression, and TensorFlow models.
- PyFun: Created 3 Python games: Blackjack, Tic-Tac-Toe, and Rock-Paper-Scissors.

SKILLS

Programming Languages: Java, Python, JavaScript, Spark SQL, Scala, C/C++ **Web Development:** HTML5, CSS, React

Unit Testing: JUnit, Mockito

Analytics & Visualization: Power BI **DBMS:** PostgreSQL, SQLite, MongoDB

Version Control: Git & GitHub

CI/CD: Jenkins

Virtualization: Docker, Kubernetes Cloud Computing: Azure, AWS OS: Linux, MacOS, Windows Visual Computing: OpenCV,

TensorFlow

Other: IntelliJ, Gradle, Maven, VS Code, Jupyter Notebook, Vim, Jira, Postman

EDUCATION

BSc. in Computer Science

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

MSc. in Oil & Gas Engineering

Memorial University of Newfoundland 01/2018 - 10/2019

BSc. in Petroleum Engineering

Islamic Azad University 09/2011 - 06/2015

CERTIFICATIONS

Java Spring Boot | Amigoscode C/C++ | ACENET

AWS Cloud Practitioner | Pluralsight

React 17 | Pluralsight

Splunk Fundamentals | Splunk - NYC

JUnit 5 | Pluralsight

Java SE 8 Programming | Pluralsight
Python & Machine Learning | ACENET
Complete Web Development | Udemy
Complete Python Bootcamp | Udemy