

Maah Asghar

maahasghar@hotmail.com | linkedin.com/in/maahasghar | maahasghar.com

EDUCATION

Western University

Bachelor of Science, Honours Specialization in Computer Science. Minors in Software Eng.

London, ON

Sept. 2017 - May 2022

EXPERIENCE

Software Engineer II

Oct 2022 – Present

Suspicious Transaction Reporting (STR), Royal Bank of Canada

Toronto, ON

- Led the full-stack design and development of an automated STR reconciliation system between internal banking systems and FINTRAC, utilizing Python (Flask), SQL Server, and RESTful APIs.
- Automated reconciliation workflows and scheduled jobs using Apache Airflow, reducing manual monitoring by 90%
- Developed a React.js dashboard to enable compliance teams to track discrepancies and receive real-time reporting alerts.
- Integrated email notifications and Slack bot alerts to escalate missed STR submissions, ensuring timely business action and regulatory compliance.
- Enabled early detection of reporting gaps, helping the organization avoid millions in potential regulatory penalties each quarter.

Software Engineer II

Oct 2022 - Oct 2024

Data Governance, Royal Bank of Canada

Toronto, ON

- Spearheaded the development of a ReactJS-based file monitoring dashboard, leading a team of 4 developers. Resulted in a streamlined process for tracking incoming data files, reducing errors by 30% and improving overall efficiency by 20%.
- Established back-end in java to fetch file status from Linux Servers and store data in Neo4J and Postgres dbs.
- Resolution time reduced by 30%, enabling the team to swiftly address unexpected failures and delays.
- Boosted productivity by 40% when providing real-time insights to facilitate informed decision-making.
- Contributed 50K+ lines of code to an established codebase via Git and automated CICD pipeline.
- Expanded the team by on boarding and training two new developers improving team's productivity.

Software Engineer I

May 2022 - Oct 2022

Data Governance, Royal Bank of Canada

Toronto, ON

- Built a Spark-Scala application to merge files on Hadoop File Sharing System that recursively fetched files from target directories and sub-directories; merging together files with same extension.
- Reduced Namenode load by 30%, and improved processing of files on HDFS by 15%.
- Resulted in efficient space utilization by using full block of space, and overall shrinking the disk usage by 1TB (3%)
- Contributed 30K+ lines of code to an established codebase via Git and automated CICD pipeline.

Software Developer Intern

May 2021 - Aug 2021

Amplify Program, Royal Bank of Canada

Toronto, ON

- Piloted the development of an in-house application that enabled TDM to analyze and generate statistically referenced subsets of data from large production data using modern tech stack (React.js, Python, SQL).
- The application reduced the wait time for test data by 95%. That in-turn accelerated the development cycle from inception to completion, alleviating bottlenecks and expediting project progress by 30%.
- Utilized Agile to respond to changing requirements and improving solutions after feedback.
- Created wikis and team documentation using Atlassian Confluence to be used by internal and external teams.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Scala, SQL (Postgres), JavaScript, HTML/CSS, Unix, MySQL, Typescript

Frameworks: React, Node.js, Flask, JUnit, Material-UI, RestAPI, AWS

Developer Tools: Git (version control), Docker, Postman, Jenkins, Visual Studio, PyCharm, IntelliJ, Eclipse, Kubernetes, Hadoop, Apache Kafka, Spark, Jira, Confluence

Libraries: Neo4J(GraphQL/NoSQL), npm

Concepts: Data structures and algorithms, System Designs, Linear Algebra, Data Analysis, UML, Computer Networks, Data Structures and Algorithms, Object-Oriented Programming, Discrete Mathematics, Design Patterns and Software Development Life Cycle (SDLC)

LEADERSHIP OPPORTUNITIES:

Dell Technologies' Soar with Mentor: Participated as a mentee and was mentored by senior developers at Dell for 4 months.