

# Ahmed Shahrukh Ali

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Skills	Technology	Experience
DevOps	AWS, Azure, Google Cloud	3+ years
Data Engineering	Hadoop, Spark, Kafka	3+ years
CI/CD	Jenkins, Travis CI, CircleCI	3+ years
Containerization	Docker, Kubernetes	2+ years
Infrastructure as Code	Terraform, Ansible	2+ years
Monitoring and Logging	Prometheus, Grafana, ELK Stack	2+ years
Programming Languages	Python, Java, Scala	3+ years

## Experience

### Data Engineer, Self-Directed Learning, Toronto, ON

Aug 2021 – Present

- Designed and implemented a real-time data pipeline using Apache Kafka and Spark Streaming to process and analyze customer transaction data, which resulted in immediate insights for the modelling team.
- Developed ETL scripts using Python and SQL to extract, transform, and load data from various sources into a centralized data warehouse, improving data accessibility and enabling advanced analytics.
- Optimized query performance by creating indexes, partitioning tables, and tuning database configuration parameters, resulting in a 40% reduction in query execution times.
- Collaborated with data scientists to develop machine learning models and seamlessly integrated them into the data pipeline, enhancing predictive analytics capabilities.
- Deployed and updated data pipelines, leveraging Bitbucket for version control and ensuring pipeline reliability.
- Conducted unit testing to validate data pipeline functionality and identify and rectify issues.
- Worked closely with a senior engineer to update documentation, including data pipeline documentation, data dictionaries, and data lineage.

### Project Coordinator, Nordik – Toronto, ON

July 2021 – Oct 2021

- Responsible for assembling a project team, assigning individual responsibilities, identifying appropriate resources, and developing schedules to ensure timely completion of project.
- Responsible for project budget estimation, monitoring, and attainment throughout the project lifecycle.
- Held daily stand-up meetings with technicians to optimize delivery by resolving issues, addressing bottlenecks, and enabling co-operation and collaboration across multiple teams through clear communication.
- Presented weekly status report to COO & major stakeholders, maintaining logs, minutes, and follow-ups.

### Banking Advisor, RBC – Toronto, ON

Mar 2020 – June 2021

- Provided innovative technology solutions and advisory services to banking clients, leveraging expertise in financial services and emerging technologies.
- Advised clients on optimizing banking operations, implementing digital initiatives, enhancing customer experiences.
- Conducted research on emerging technologies in the banking industry, identifying opportunities for process improvement and competitive advantage.
- Demonstrated expertise in complaint management and delivering exceptional customer experiences, resulting in high satisfaction levels.
- Developed and delivered technology training programs to banking staff, promoting digital literacy and adoption.

### Product Intern, RBW Payments

Jan 2019 – Apr 2019

- Collaborated with a multi-disciplinary team to orchestrate the launch of the Loyalty Rewards Program.
- Improved customer experience by designing a user-friendly registration page by incorporating feedback from users.
- Developed customer relationships with more than 100 local businesses in all industries in 2 years.
- Arranged meetings and delivered presentations for C-level executives, and senior management.

- Demonstrated product knowledge via excellent communication and presentation in engaging new clients.
- Ensure customer satisfaction in role as client relationship in-charge to identify gaps.

#### **IT Analyst Intern, Noor Bank**

Sep 2018 – Dec 2018

- Contributed to the Digital Transformation in testing, launch, and training for services including Loan Approval, New User Registration, Mobile App Update among other initiatives.
- Day to day collaboration with various business and IT departments to innovate unique user experiences.
- Designed BRD and FSD for the procurement of IT products and various other technical documentation.

### **Projects**

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#### **Private Data Q&A LLM**

**Technology:** Python, Streamlit, HuggingFace Transformers, Langchain, Chroma

- Developed a chatbot application that can interact with PDF documents using Python and various libraries.
- Implemented data ingestion, text-to-text generation, and retrieval-based question answering functionalities.
- Created a web interface that allows the user to upload a PDF file, view its details and preview, and chat with the chatbot about the content of the file.
- Demonstrated the ability to use natural language processing, machine learning, and web development skills to create an innovative and user-friendly solution.

#### **Fraud Detection Solution**

**Technology:** Azure Functions, Azure Logic Apps, Azure Machine Learning, Azure Stream Analytics, Cosmos DB, Power BI

- Prepared and stored historical data on credit card transactions and customer demographics in Azure Cosmos DB.
- Trained and evaluated two XGBoost models using Azure Machine Learning, one with simple, and one with aggregate features based on historical activity, and deployed the trained models for real-time scoring with Azure Functions.
- Built a streaming pipeline with Azure Stream Analytics that consumes new transactions from Event Hubs, invokes the Azure Functions for scoring, and writes the predictions to Cosmos DB and Event Hubs.
- Used Cosmos DB as a low-latency database to store and query the recent transactions for each user.
- Set up alert-based fraud notifications using Azure Logic Apps and integrated with downstream services such as Twilio.
- Created dashboards for business and technical operations using Power BI.

#### **Applicant Intelligence**

**Technology:** Python, React, Flask, Spacy, NLTK, AWS, SageMaker, Lambda, DynamoDB

- Created an end-to-end application on AWS using Natural Language Processing for an intelligent resume scanner to address missing valuable skills to strengthen candidate.
- Developed the NLP model for unstructured textual data in collaboration with top industry professionals.
- Built an ETL pipeline to collect, clean, and analyse data from job boards to build an interactive application.
- Used clustering algorithms to understand the overlap of skills within and across domains.
- Implemented MLOps best practices to deploy CI/CD pipeline for batch training and updating downstream tasks.
- Deployed the application using AWS using various services to improve automation, efficiency, and reliability.

#### **Full Stack Web Development with Angular**

**Technology:** Angular, Node.js, npm, Bootstrap, Express Server, Postman, OAuth

- Built unique web pages with the Angular framework to implement a functional full-stack web application.
- Defined and automated test cases using multiple tools including Jenkins, Postman, Grunt.js and Gulp.js.
- Used Angular Material, Angular Flex-Layout, Observables and RxJS for designing responsive Angular applications.
- Made use of server-side concepts, such as CRUD and REST using NoSQL databases in MongoDB and communication over JSON and XML.
- Built a RESTful API for the frontend to access backend services and set up security.

### **Education**

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#### **George Brown College**

Expected May 2024

Postgraduate Certificate in Applied A.I. Solutions Development

#### **Carleton University**

May 2017

Bachelor of Science in Electrical Engineering, Minor in Software