Victor Ukpe

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EDUCATION

Memorial University of Newfoundland	Sep 2018 - Jun 2023
Bachelor of Computer Science, Minor in Economics	St. John's, NL

TECHNICAL SKILLS

- **Programming:** Python, SQL, JavaScript, Java, Shell Scripting (Bash)
- **Big Data:** ETL, PySpark, Airflow, Kafka, PostgreSQL, MySQL, MongoDB, Hadoop, Excel, APIs
- **Technologies:** Git, Amazon Web Services (AWS), Postman, Docker, Jenkins, Linux

EXPERIENCE

ClearRisk Inc.	Aug 2021 – Oct 2022
Data Engineer / Cloud Developer	St. John's, NL

- Collaborated with the product manager to outline a 3-phase strategic plan for integrating machine learning features into the product roadmap, enhancing team collaboration and resource distribution for data-driven projects.
- Built and maintained automated ETL workflows, standardizing historic and current data into consistent formats for machine learning modelling and analysis, reducing AWS cloud resource utilization and costs by 40% on querying.
- Configured and deployed a machine learning model for predicting risk premiums on insurance claims on AWS Sagemaker, using data stored in a Redshift and dynamoDB database, and calibrated model endpoints and APIs using API gateway.
- Successfully launched the risk premiums prediction feature on the ClearRisk app, driving substantial user engagement, and making the feature the platform's most favored tool for beta clients in its debut month.
- Documented all data processes, encompassing architectural diagrams, data flow diagrams, and technical specifications.

SkillsHawk	Jun 2020 – Oct 2020
Data Engineer / Software Developer Intern	St. John's, NL

- Implemented data infrastructures in AWS for scraping Google Trends, extracting insights from 5000+ data points on technology industry trends and standards, and built an interactive dashboard using Quicksight for visualization.
- Wrote and actively maintained integrated unit test suites for the Django application as new features were developed.
- Planned and conducted usability testing sessions, observing user interaction and gathering feedback.

PROJECTS

AWS Big Data System (Kinesis, EC2, Lambda, Redshift, DynamoDB and More)
- Simulated the creation of real-time transaction and log data using a deployed process running on an EC2 instance.
- Established a transaction rate alert system using Kinesis, Lambda, and SNS for real-time monitoring and alerting.
- Architected a near real-time log analytics platform, leveraging Kinesis Firehose and OpenSearch for insights.
- Orchestrated data warehousing and visualization using S3, Redshift, DynamoDB, Glue, Athena, and QuickSight.

Novel Genre Prediction Application (Python - [Selenium, SkLearn, Django], Docker, AWS App Runner)
- Scraped detailed summaries and genres of 500+ popular novels from Wikipedia pages using Selenium.
- Achieved 85% accuracy in creating a genre prediction model and hosted model endpoints on AWS App Runner.
- Created a Django web application to securely access genre prediction API hosted within a microservice architecture.

CERTIFICATIONS

- **Certified Data Engineer Associate (DEA-C01)**, Amazon Web Services (AWS)
- **Certified Cloud Practitioner (CLF-C01)**, Amazon Web Services (AWS)
- **Data Engineer Professional Certificate**, IBM
- **Scrum Fundamentals Certified**, ScrumStudy