

# Abraham Ighalo

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## EDUCATION

**Bachelor of Computer Science**

**Algoma University (Sept 2020 - June 2025)**

**Relevant Coursework:** Data Structure and Algorithms, Databases, Discrete Mathematics, Software Engineering, Analysis of Algorithms, Networking, Web Design.

**Thesis:** Quantum Enhanced Data Analytics for Crime Prediction (**presented at 2025 SNPD International Conference**)

## EXPERIENCE

**TD Bank | Software Engineer | Power BI, Dynatrace, Power Automate, Python, SQL Server (October 2025 - Present)**

- Manage incident reporting and implement automation to streamline response processes, while monitoring application performance and reliability.

**Kyanon Digital | Poseidon Team | Data Engineering Intern | Python, Spark, Dask, MLFlow, ML, Streamlit (Jan 2025 - June 2025)**

- Implemented a recommendation model to ensure equitable personalization while maintaining user relevance and engagement.
- Designed anomaly detection models to uncover irregularities in credit card loyalty and rewards programs, supporting fraud prevention.

**OLG | Performance Analyst Intern | SQL-Server, SQL, Power BI, Excel, DAX (Sept 2024 - Dec 2024)**

In this role, I built and maintained operational reports for the purpose of enhancing the experience of users of OLG's gaming and lottery products

- Redesigned critical dashboards to improve data visualization and user experience, reducing time-to-insight by 30%.
- Created a custom Excel analytics report for SLT, consolidating lottery performance metrics and company health indicators for data-driven decisions.
- Restructured project portfolio reports, improving cross-departmental communication and SLT's ability to prioritize future projects.

**Sault Area Hospital | Junior Data Analytics intern | SQL, Power BI, SSRS, Excel, DAX (July 2024 - Sept 2024)**

At the hospital, I performed Data Migration and Report Building. I managed the migration of 12 Operational Legacy SSRS reports to power BI.

- In this role, I built reports that were used by medical professionals to help make the best decisions for patients and staff. Among the sectors I reported include appointments, bed allocation, hazards identification and prevention.
- I also managed daily reports that were viewed by medical professionals to provide up-to-date summarised assessments of patient status, significantly enhancing speed in decision-making, operational efficiency as well as supported critical healthcare operations.

**TD bank | Software Engineer intern | MYSQL, SQL, Python, Apache Spark, Data Factory (May 2023 - Dec 2023)**

I worked with the Fraud Engineering team to onboard customer datasets from third-party vendors and TD's credit card platforms to Azure cloud infrastructure, enabling advanced fraud detection analytics targeting money mule accounts. I documented the complete onboarding framework in Confluence, creating a reusable process for future dataset integrations.

- Designed a reusable Spark-based system, reducing manual effort by 70% with JSON configurations.
- Optimized Spark RDDs, cutting 30GB file onboarding time from 3 hours to 1 hour (67% faster).
- Automated pipelines with Data Factory, eliminating 70% of manual tasks and preventing reporting delays.

## PROJECTS

**Loyalty Program Fraud Detection System | Python, Pandas, Machine Learning [Github](#)**

- Developed comprehensive anomaly detection system using 7 ML algorithms (supervised & unsupervised), achieving 98.6% ROC AUC with XGBoost
- Performed exploratory data analysis on 284K+ transactions, identifying key fraud patterns such as peak activity at 9PM and higher afternoon fraud rates.
- Engineered features from 284K+ transactions including reward points simulation and time-based patterns

**Liverpool FC Stats & Blog | Java, Spring Boot, Angular, TypeScript, AWS**

- Built a full-stack web platform displaying live Liverpool FC match stats, player performance, and league standings.
- Developed a fan blog feature enabling community posts, match reviews, and discussions.
- Deployed the application on AWS to demonstrate cloud deployment and scalability.

**Alke Club | JavaScript, Python, Django [Github](#)**

Designed to support a new club at Algoma University, created to foster community among African students and help newcomers adapt to the Canadian culture.

- Developed a full-stack Django web application for handling user feedback and contact form submissions with front-end and back-end integration.
- Enabled secure and efficient data handling using Django's CSRF protection and built-in form validation.
- Processed user input on submission and returned real-time confirmation messages via email to enhance user experience.