

SAMUEL ADETSI

abdulrahmanadetsi@gmail.com | +1 (604) 379 4106 | Vancouver, BC | [GitHub](#) | [Portfolio Website](#) | [LinkedIn](#)

SUMMARY

Data Science Master's graduate (UBC, '25) with 2+ years of software engineering experience building production ML systems and prototypes. Strong foundation in algorithm development, machine learning models, and large-scale data analysis. Proven track record prototyping solutions from concept to live integration, maintaining model pipelines, and communicating insights to diverse audiences. Experience with Python, AWS, PySpark, and modern ML frameworks.

TECHNICAL SKILLS

- **ML & AI:** Scikit-learn, TensorFlow, PyTorch, XGBoost, LangChain, OpenAI GPT, NLP, Time Series Forecasting
- **Programming:** Python, SQL, R, C++, Java
- **Statistics:** A/B Testing, Hypothesis Testing, Causal & Bayesian Inference, Statistical Modeling
- **Big Data & Cloud:** PySpark, AWS (S3, Lambda, EC2), Airflow, Docker, PostgreSQL, MongoDB, Snowflake
- **Development:** Git, CI/CD, Agile, FastAPI, Flask, MLflow, model development pipelines
- **Visualization:** Dash, Streamlit, Plotly, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE

Data Scientist | Brilliant Automation | Vancouver, BC | Apr 2025 - Jun 2025

- Built end-to-end predictive maintenance system replacing legacy model, prototyping solution from concept to production deployment
- Engineered automated data pipeline synchronizing high-frequency sensor streams, eliminating manual overhead
- Delivered interactive dashboard integrated with AWS infrastructure, communicating insights to technical and non-technical stakeholders

Software Engineer | Morgan Stanley | London, UK | Jan 2022 - Jul 2023

- Automated data integrity validation across financial data streams using Python/Bash, saving 15+ hours monthly and maintaining 97% accuracy
- Performed statistical validation on time-series market data, improving data reliability for downstream analytics systems
- Optimized high-performance C++ infrastructure, achieving 20% throughput improvement and measurable latency reduction

Software Engineer (Open Source) | FINOS | Accra, Ghana | Aug 2023 - Nov 2023

- Contributed to FINOS Perspective and Waltz open-source fintech frameworks, enhancing libraries for improved performance
- Delivered production-ready features using Agile and CI/CD practices, collaborating with distributed teams

PROJECTS

Financial Transaction RAG System | [GitHub](#)

- Prototyped RAG application with LangChain and GPT-4 processing 100-200 transactions/second, achieving sub-100ms latency
- Engineered PDF extraction pipeline with automated semantic categorization across 10+ spending categories
- Built dual-interface system with interactive visualizations for natural language financial queries

AgroSense: Smart Agriculture IoT Data Pipeline | [GitHub](#)

- Architected end-to-end Airflow pipeline orchestrating daily API and IoT sensor ingestion into PostgreSQL and Snowflake
- Designed 15+ dbt SQL models across staging, intermediate, and mart layers with automated testing, achieving 99%+ reliability
- Trained crop yield prediction and irrigation optimization models; tracked experiments with MLflow

EDUCATION

- **Master's in Data Science** | University of British Columbia | Vancouver, Canada | Aug 2024 - Jun 2025
- **Bachelor's in Information Technology** | University of Cape Coast | Cape Coast, Ghana | Aug 2017 - Sep 2021