SAMUEL ADETSI

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SUMMARY

Full Stack Data Scientist with a Master's in Data Science from UBC. Skilled in end-to-end data-driven solutions, including machine learning, experimental design, and scalable deployments. Delivered production-ready systems at Morgan Stanley and FINOS, improving performance and optimizing solutions for real-world adoption. Experienced in building interactive dashboards, cloud-based pipelines, and ML models for predictive analytics. Passionate about transforming complex data problems into actionable insights to drive innovation across industries.

TECHNICAL SKILLS

- **Programming:** Python, R, SQL, C++, Flask, FastAPI
- **Machine Learning & AI:** Scikit-learn, TensorFlow, Recommendation Systems, NLP, MLFlow, Time Series Forecasting
- **Experimental Design:** A/B Testing, Regression Analysis, Hypothesis Testing, Statistical Modeling, Causal & Bayesian Inference
- **Data Engineering:** PostgreSQL, MySQL, MongoDB, Snowflake, BigQuery, AWS (SageMaker, S3, Lambda), Airflow
- **Visualization:** Dash, Streamlit, Tableau, Matplotlib, Seaborn, Plotly
- **Development:** Docker, CI/CD Pipelines, GitHub, Agile Development Processes

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 - Oct 2021

WORK EXPERIENCE

Software Engineer | Morgan Stanley (Jan 2022 - Apr 2023)

- Developed production-ready C++ systems processing large-scale financial data, improving performance by 20%
- Conducted statistical analysis on complex, semi-structured datasets to optimize market data accuracy
- Collaborated with cross-functional teams to deliver data-driven solutions for trading platforms
- Automated data processing workflows, reducing manual effort by 15+ hours/month

Software Engineer | FINOS Open Source Foundation (Apr 2023 - Nov 2023)

- Enhanced open-source data visualization libraries (Perspective & Waltz) used by financial institutions
- Contributed to production codebases alongside distributed development teams
- Improved user experience through data-driven UI/UX enhancements

PROJECTS

ML Runtime Prediction Model

- Developed an XGBoost-based model with 95% R^2 to predict ML training times and optimize workflows.
- Deployed the solution using FastAPI APIs and integrated an interactive Streamlit dashboard
- **Technologies**: Python, pandas, XGBoost, Streamlit, FastAPI, Docker.

Health-Predictor - Personalized Content System

- Developed a deep-learning-based neural network to predict personalized health scores from activity data.
- Built an intuitive Dash-based dashboard for real-time visualization and recommendations.
- **Technologies**: PyTorch, pandas, Dash, Python, Flask, A/B Testing.