

Peter Wasswa Ssemakula

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GitHub | Portfolio | LinkedIn

SUMMARY

Data Scientist / Software Engineer with experience in Python, SQL, and applied machine learning. Skilled in data cleaning, statistical modeling, dashboarding, and communicating insights to technical and non-technical stakeholders. Interested in building data products and evidence-based solutions with strong engineering practices.

Technical Skills

Languages: Python, R, SQL

Data Science: Regression/GLM, Classification, Model Evaluation, Feature Engineering, Fairness/Bias Checks

Visualization: Tableau / Power BI, R Shiny, Dash (optional)

Data Engineering: ETL Pipelines, APIs, Docker, CI/CD (optional)

Databases/Tools: PostgreSQL, MySQL, Git, Excel, Linux

Education

Master of Data Science (MDS)

Aug 2025 – Jun 2026

University of British Columbia (UBC)

Vancouver, BC

Coursework: Statistical Modeling, Machine Learning, Data Visualization, Data Workflows, Big Data Analytics

Bachelor of Science in Software Engineering (First-Class Honours)

Aug 2019 – Jan 2024

Makerere University

Kampala, Uganda

Professional Experience

Junior Software Engineer

Mar 2024 – Aug 2025

Sybyl

Kampala, Uganda

- Built and maintained APIs and integrations (e.g., WSO2 Micro Integrator / SOAP) for banking/payment workflows.
- Implemented validation logic and database-backed checks to ensure reliable transaction processing.
- Wrote verification scripts and QA checks to identify duplicates, validate loads, and support migration verification tasks.

(Role Title)

(Month Year) – (Month Year)

(Company/Org)

(City, Country)

- Achievement or impact with numbers (e.g., processed 1M+ records, reduced runtime by 30%).
- Built dashboards / reports for stakeholders; communicated insights and recommendations clearly.

Projects

Risk Modeling / Classification Project (Python, scikit-learn)

- Built and tuned models (e.g., logistic regression, SVM, tree-based) using cross-validation and appropriate metrics.
- Performed error analysis and improved performance through feature engineering and preprocessing pipelines.

Data Pipeline / Reproducible Analysis (Docker, Make, GitHub Actions)

- Converted notebooks to scripts and automated end-to-end pipelines with reproducible environments.
- Packaged results into reports (Quarto) and published artifacts via CI/CD.

Leadership & Community (Optional)

- Mentored students in programming (Java) and supported youth training in basic computer skills.
- Led/participated in community initiatives focused on digital skills and empowerment.