

OLIMI EMMANUEL KASIGAZI

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PROFESSIONAL SUMMARY

Computer Science Engineer | Data, AI/LLM Specialist | Communicator

Data and Software engineer with 14+ years of technology, data, product, and analytical experience, including daily hands-on work with Python, SQL, statistical modeling, regression analysis, large datasets, data transformation, forecasting-oriented analytics, and data visualization.

Deep expertise in Data ETL, visualization, AI, and LLM systems: from RAG architectures and vector databases to production model deployment.

Combines technical rigor with data-driven storytelling, product innovation, media, branding, design and proven communication skills from **work with MIT** to transform complex problems into clear, human-centered, and genuinely useful solutions.

CORE COMPETENCIES

Languages: Python (production-grade), SQL, R, JavaScript, Java, Bash

Data Engineering: ETL/ELT Pipelines, Data Modeling, Data Warehousing, Batch and Streaming Processing, Data Validation, Data Integrity, Schema Design, Deduplication, PySpark, Airflow

Databases and Platforms: PostgreSQL, Snowflake, Microsoft Fabric, Databricks, ChromaDB, FAISS, Vector Databases, NoSQL, BigQuery, Redshift

AI/ML and LLMs: RAG, LLMs (offline edge compute), Hugging Face Transformers, PyTorch, LangChain, llama-cpp-python, scikit-learn, XGBoost, NLP, Embeddings, LoRA/QLoRA Fine-Tuning, MCP, Agentic, Prompt Engineering, Model Deployment, Quantization

Cloud and Infrastructure: AWS, Azure, Google Cloud, Cloudflare (R2, Workers, CDN), Docker, Kubernetes, Linux, Git, CI/CD, REST APIs, Claude Code/Codex, Mistral, Gemini (terminal), AntiGravity, RStudio, Cursor, PgAdmin, DbSchema, Anaconda Env.

Big Data and Tools: Pandas, NumPy, Jupyter, Ollama, Gradio | Visualization: Tableau, Power BI, Adobe Suite, Canva, GIMP, Inkscape

Communication and Design: VistaSocial, Descript, Salesforce, HubSpot, GoHighLevel, QuickBooks, LinkedIn & Google Campaign Manager, WordPress, Fruity Loops

EXPERIENCE

Data Analyst - Sy Syms School of Business, Yeshiva University

Manhattan, New York, NY | Jul 2025 - Feb 2026

- Built an automated ETL pipeline in Python (Pandas) consolidating 126+ fragmented sources into a centralized master database, reaching 99%+ data integrity through deduplication and standardization.
- Developed an internal RAG-powered chatbot and natural-language query interface, enabling non-technical staff to search, query and analyze alumni data.
- Partnered with career center, admissions, communications and marketing teams to support alumni engagement initiatives, reorganize databases, create LinkedIn research frameworks, and deliver data products ahead of project deadlines.

Data Engineer / Graduate Assistant, communications & media - Katz School, Yeshiva University

Manhattan, New York | Jan 2025-May 2026

- Built a media-outreach database and pipeline of tri-state journalists for a university communications team.
- Engineered Python pipelines to clean and transform 3,000+ fragmented ERP and social records into a 99.3% complete, RAG-ready dataset.
- Built a RAG chatbot interface on top of the dataset for natural-language querying by non-technical staff.
- Worked with a 12-person Communications team to create visual and marketing materials while managing content across web, social, and email platforms to enhance outreach and audience engagement.
- Created, hosted, and produced a "Life at Katz" podcast highlighting student life and experiences at Katz School and New York City.

Host & Co-founder "MIT Open Learners" - Massachusetts Institute of Technology

Cambridge, MA | Nov 2022 - Dec 2024

- Created, produced and hosted a six-episode podcast focusing on users of MIT OCW's resources from each continent reaching over 6 million listeners.

Operations & Data Lead, Founding engineer - Wazi Group Ltd.

Uganda (5 East African Countries + UAE) | 2011-2024

- Worked with a team of 20+ to develop web, PC and mobile solutions for projects serving government agencies, private firms, and individual clients including UNICEF, PepsiCo, and Mastercard, maintaining client analytics, performance reporting, and operational dashboards.
- Led a nationwide Presidential campaign strategy for Uganda's only 2021 female Presidential candidate, Nancy Kalembe, developing branding strategies, marketing material and cross-channel performance metrics monitoring.
- Assumed the role of managing operations in 2019, leading the expansion into branding, print production, digital marketing, and procurement services resulting in over 80% revenue growth over 2 years.

EDUCATION

M.S. Data Analytics and Visualization - Yeshiva University, Manhattan, New York | 2026

MicroMasters, Statistics and Data Science - Massachusetts Institute of Technology (MITx) | 2022

B.S. Information Systems - Makerere University, Kampala, Uganda.

SELECTED PROJECTS

[NYC 311 Analytics](#) - Large-Scale Data Pipeline (300M+ Records)

- Engineered a Python pipeline processing 300M+ NYC 311 records; built geospatial visualizations and time-series analysis to surface patterns and inform policy insights

KalshiBots (kalshibots.net) - Quantitative Trading Analytics

- Shipped a live marketplace of 15 algorithmic trading systems; applied UCB bandit algorithms across 13 strategy variations to optimize risk-adjusted returns

[25 years of New York Times headlines: what the data shows](#)

- Engineered a Python/pandas NLP pipeline to clean and analyze 2.2M New York Times articles (2000-2025)

[Laba Party](#) — African-themed digital party game (charades / taboo)

CERTIFICATIONS

Microsoft Fabric Analyst - Microsoft Reactor NYC (2025) | Data Science for Business - DataCamp | AI in Production (2025) | LLM Engineering: Generative AI, RAG, LoRA & AI Agents - Ed Donner (2026) | AI Agents Intensive - Google (2025)

LEADERSHIP & AWARDS

- President - Katz African Students Association | 2025-26 - Lead 7-member executive team serving 1,700+ STEM graduate students
- [National Science Foundation I-Corps Fellow](#) | 2025 - Selected for the federal government's flagship commercialization program
- Co-Host, Massachusetts Institute of Technology OpenCourseWare Open Learners Podcast | 2022-2024 - 6M+ global learners
- Winner, Resilient Africa Network Innovation Grant | 2016 - E-musawo telemedicine platform
- [Selected Presenter, OEGlobal 2026 Conference](#) | Massachusetts Institute of Technology, Cambridge, MA
- Selected Presenter, State University of New York AI Industry Showcase | Stony Brook University, 2026 — showcased AXAM's offline retrieval-augmented generation system
- [Outstanding Impact in Science and Technology Award](#) | Yeshiva University Katz School Symposium on Science, Technology and Health, 2026 — for [AXAM](#)
- Recognized and [featured](#) in [several articles](#) by Massachusetts Institute of Technology about my [work](#) with them.

Find more on my: [Portfolio](#), [Github](#), [linkedin](#), [medium](#), [substack](#), or [blogger](#)