

JAMES MBEYAH

Software Developer | Automation, AI & Data Analyst

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EXECUTIVE SUMMARY

Highly motivated Software Developer and Data Analyst with hands-on experience in automation, AI, and enterprise-level process optimization. Skilled in developing end-to-end solutions that streamline workflows, enhance data-driven decision-making, and improve operational efficiency. Strong foundation in programming, data visualization, and web technologies, with additional expertise in data annotation for AI training. Passionate about leveraging technology to solve complex business problems and deliver impact.

PROFESSIONAL EXPERIENCE

Kenya Reinsurance Corporation, ICT Department

June 2025 - August 2025

Software Developer Intern – Automation, AI & Data Analysis

- Automated the high-volume debt allocation process by developing back-end Python/Flask solutions integrated with Excel, successfully eliminating manual steps.
- Leveraged Artificial Intelligence to optimize financial reconciliation processes, significantly reducing error rates and streamlining month-end reporting cycles.

Homabay County Government, ICT Department

July 2023 - September 2023

IT Intern

- Provisioned and managed user accounts, security groups, and access permissions within Active Directory (AD) for 500+ staff, maintaining security standards for sensitive county ICT systems.
- Maintained and optimized critical ICT infrastructure supporting county-wide population data management and service delivery.
- Supported LAN connectivity troubleshooting, endpoint device monitoring, and system uptime.
- Installed, configured, and maintained desktops, laptops, printers, and network-connected devices.
- Documented ICT procedures and incident resolutions to improve response efficiency.

University of Nairobi, ICT Department

March 2023 - May 2023

Power BI Data Analyst Intern

- Collected institutional data from Excel spreadsheets, Microsoft Access databases, and departmental systems, combining manual extraction with automated Power BI refresh pipelines to ensure timely and reliable data availability.
- Cleaned, validated, and transformed datasets using Power Query to standardise formats, resolve inconsistencies, and build data models ready for analysis.
- Designed and deployed interactive Power BI dashboards with KPIs such as student enrollment trends, departmental performance metrics, system usage statistics, and year-over-year growth, enabling leadership to identify inefficiencies and gaps.
- Developed DAX measures for departmental performance ratios and comparisons, while implementing role-based access controls in collaboration with ICT administrators to secure sensitive data and support real-time, self-service reporting.
- Assisted with row-level security (RLS) implementation, basic data governance, and supported senior analysts in ad-hoc analysis and business presentations.

EDUCATION

University of Nairobi, Nairobi, Bachelor of Science - Computer Science

August 2017 - September 2025

SKILLS

Technical Skills

- Programming & Development: Python, C++, JavaScript, ReactJS, NodeJS.
- Data Analytics: Data wrangling, trend analysis, and reporting using Python, Power BI, Excel.
- Data Visualization: Interactive dashboards, performance metrics, insight-driven visuals.
- Databases: MySQL, Microsoft Access, PostgreSQL, MongoDB.
- IT Support: Hardware & software troubleshooting, system configuration.
- Automation & AI: Workflow automation, AI model integration, and intelligent decision systems.
- Networking: LAN/WAN troubleshooting, Network device configuration (routers, switches – basic), Connectivity diagnostics and fault resolution.
- Data Annotation: 3D LiDAR annotation, sensor data processing, 3D mapping & localization.
- Web Development: WordPress site builds, custom themes, and responsive UI design.

Soft Skills

- Collaboration & Communication: Cross-functional teamwork and clear communication with both technical and non-technical groups.
- Problem Solving & Adaptability: Effective at pinpointing core issues and developing solutions.

PROJECTS

Debt Allocation Process Automation in the Insurance Sector

- Developed an end-to-end automation solution that transitioned the high-volume debt allocation process from a fully manual workflow to an AI-assisted system. Built the backend using Python, Flask, and robust Excel integration to ensure seamless financial data processing.

SmartPolicy – AI-Driven Personalised Health Insurance Platform (Final Year Project)

- Developed a pioneering platform utilizing a fine-tuned Large Language Model (LLM) to generate hyper-personalized health insurance plans, directly addressing the challenge of over- and under-insurance in the Kenyan market. Incorporated an NLP-based virtual health assistant for real-time user support, simplifying the policy selection process and enhancing user engagement. Demonstrated a novel application of generative AI to improve accessibility and tailored coverage in the African insurance landscape.

AgriGrowth Solutions Limited

- Designed and deployed a responsive web platform enabling farmers to access agricultural information and services.