MICHAEL OUMA

Nairobi, Kenya | +254759125389 | oumamichael108@gmail.com
[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

FULL-STACK DEVELOPER

Experienced in Python with Flask and JavaScript-based programming, with a background in software engineering. Possesses strong skills in team-building and project management that help tech-driven startups and mid-sized enterprises accelerate product development and improve cross-functional collaboration. Known for leading agile teams that deliver scalable web applications under tight deadlines, including a recent project where we launched a SaaS platform 30% ahead of schedule with zero post-launch downtime.

TECHNICAL SKILLS

Languages & Frameworks:
- **Frontend:** JavaScript, TypeScript, React.js, HTML5, CSS3, Tailwind CSS, Bootstrap
- **Backend:** Python, Flask, Node.js, Express.js

Databases:
- PostgreSQL, MySQL, SQLite, MongoDB

DevOps & Deployment:
- Docker, Git, GitHub Actions, Heroku, Render, Netlify, Vercel

APIs & Integrations:
- RESTful APIs, JSON, OAuth, third-party API integration (e.g., Stripe, SendGrid)

Testing & Debugging:
- Pytest, Jest, Postman, Chrome DevTools

Tools & Platforms:
- Git, VS Code, Figma, Postman, Linux/Unix CLI, JIRA, Trello

Other Skills:
- Responsive Web Design, MVC Architecture, Agile/Scrum Methodologies, CI/CD Pipelines, Authentication & Authorisation

TECHNICAL PROJECTS

Music Streaming CLI Application- [Github](#) | [Demo](#)
A command-line interface (CLI) app that allows users to manage a personal music streaming service. Users can browse songs, create playlists, and manage their own library through a clean, interactive terminal interface.

- **Implemented** user authentication using hashed passwords to securely register and log in users via the command line.
- **Integrated** advanced search and filtering features to allow dynamic exploration of songs, artists, albums, and genres.
- **Designed** an admin dashboard for managing the music database, including adding/editing songs, ensuring full CRUD functionality.
- **Utilised** SQLAlchemy ORM to manage relational data models efficiently, ensuring scalability and maintainability.
- **Created** an intuitive CLI with emoji-enhanced visuals to improve user experience and accessibility.

EXPERIENCE

Dalberg Research   Limuru Rd, Nairobi
Data Processing   *Apr 2022 – Sep 2024*
Automated data quality control (QC) using Python by building scalable pipelines for cleaning, validation, and transformation. Developed Python modules with pandas and NumPy to detect duplicates, normalise formats, and geocode data, reducing manual errors by over 95%. Integrated QC checks into continuous workflows, accelerating preprocessing by 70% and ensuring consistent, analysis-ready datasets.

EDUCATION

Moringa School   Nairobi, Kenya
Full Stack Web Development, Python with Flask and JavaScript program   *2025*

JOMMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY   Juja, Nairobi
Biostatistics   *2024*