

MICHELLE NHENGU

Junior Python Software Engineer — Web Data & Backend Systems

michellenhengu18@gmail.com | +91 9589045033 | [linkedin.com/in/michelle-nhengu-3b3362239](https://www.linkedin.com/in/michelle-nhengu-3b3362239) | github.com/Michie-hub | portfolio-michellenhengu.onrender.com

SUMMARY

Python developer experienced in building REST APIs, integrating third-party services, and extracting structured data from HTML and JSON sources. Comfortable working across web scraping (BeautifulSoup, Selenium), backend frameworks (Django, Flask, FastAPI), and relational databases. Strong debugger who verifies data quality and output correctness, and enjoys independently scoping and shipping complete backend modules.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript

Web Data & APIs: REST APIs, JSON, HTTP, API Integration, Pagination & Error Handling, BeautifulSoup, Selenium

Backend Frameworks: Django, Flask, FastAPI, Pydantic (foundational)

Databases: PostgreSQL, MySQL, SQLite, Database Design, SQL Optimization

Tools & Practices: Git/GitHub, pytest, Unit Testing, Debugging, Docker (foundational), AWS (foundational), Agile

EXPERIENCE

Python Developer Intern — *The Developers Arena* | Aug 2025 – Feb 2026

- Developed and maintained end-to-end web applications using Flask (Python) and HTML/CSS/JavaScript, improving system performance by 25%.
- Designed and integrated RESTful APIs connecting front-end components to SQLite/MySQL databases, enabling reliable real-time data flow.
- Implemented authentication, CRUD operations, and dashboard functionality, reducing manual administrative tasks by 40%; improved response times by 30% through code optimization and caching.
- Used Docker for consistent development/deployment environments; collaborated with a cross-functional team via Git and Agile methodologies, contributing to a 20% faster delivery rate.

PROJECTS

AI Resume Screening & Job Matching Platform

- Built REST APIs for authentication, user management, and job recommendations, mapping data into normalized PostgreSQL schemas.
 - Implemented resume ranking using TF-IDF and semantic similarity (SBERT/BERT); added fairness auditing to verify output correctness.
- Tech Stack:** Python, Flask, SQLAlchemy, SQLite, Flask-Migrate, Firebase Authentication, Firebase Admin SDK, Google Gemini API, scikit-learn (TF-IDF, Cosine Similarity), HTML5, Tailwind CSS, JavaScript (ES6+), ReportLab

Backend API Development

- Developed CRUD-based RESTful APIs connected to SQL databases, with input validation and structured error handling.
- Tech Stack:** Python, FastAPI, SQLAlchemy, PostgreSQL, Redis, Celery, Docker, AWS, GitHub Actions, Nginx, JWT/OAuth2, Pytest, OpenAPI/Swagger, S3, Alembic.

Tech Blog Platform

- Developed a full-stack blogging platform with Flask, enabling dynamic blog publishing, event management, and PDF generation. Implemented a responsive frontend, database-driven content management with SQLAlchemy, and automated schema migrations using Flask-Migrate. Integrated Firebase Authentication for secure user access and deployed the application using Render.
- Tech Stack:** Python, Flask, SQLAlchemy, Flask-Migrate, SQLite, Firebase Authentication, Firebase Admin SDK (JWT Verification), HTML5, Tailwind CSS, JavaScript (ES6+), ReportLab, Unicorn, Render

EDUCATION

B.Sc. Computer Science — Rabindranath Tagore University, Graduated July 2026

ADDITIONAL

Soft Skills: Problem Solving, Debugging & Root Cause Analysis, Attention to Detail, Clear Written & Spoken Communication, Independent Learning, Ownership, Adaptability

Languages: English (Fluent), Hindi (Conversational), Shona (Native), Setswana (Fluent)