

LAWRENCE WAFULA NYONGESA

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with a BSc in Information Technology (Kabarak University) and professional experience building and integrating REST APIs, maintaining backend services, and shipping production-grade features across multiple companies - including a current role at Novel Cloud Ltd. Proficient in Python, TypeScript, and JavaScript, with hands-on exposure to FastAPI, database management, unit and smoke testing, and agile development workflows. Holds multiple Microsoft certifications including Fabric Data Engineer Associate and Azure migration credentials. Strong written communication and analytical skills developed through cross-team collaboration, technical documentation, and systematic debugging. Ready to apply this engineering depth to design rigorous, technically accurate coding challenges and evaluate AI model responses with precision.

CORE COMPETENCIES

Python	TypeScript	JavaScript	REST API Design	Algorithm Design	Data Structures	Unit Testing	Smoke Testing
FastAPI	Git & GitHub	SQL / MySQL	System Design	Code Debugging	CI/CD Basics	Agile	Technical Writing

PROFESSIONAL EXPERIENCE

Software Engineer · Novel Cloud Ltd

Sep 2025 - Present | Remote

- Build and maintain backend services powering multiple production applications, with a direct focus on stability, performance, and fault tolerance - the same standards required when designing and evaluating high-quality AI coding challenges.
- Develop and maintain API deployment pipelines, improving production reliability and reducing failure rates through structured testing, monitoring, and iterative improvement practices.
- Collaborate cross-functionally with frontend and infrastructure teams to ensure seamless integrations - building the async, written communication skills essential for a remote, flexible AfterQuery engagement.
- Apply unit and smoke testing disciplines to validate API behaviour and catch regressions before deployment, reinforcing a test-first engineering mindset directly applicable to designing TDD-focused AI training scenarios.

Software Engineer · Lish AI Labs

Sep 2024 - Dec 2025 | Nakuru, Kenya

- Developed and maintained web application features using modern JavaScript frameworks and Python backends, writing modular, well-structured code across real-world production systems.
- Built and integrated RESTful APIs to support internal tooling and client-facing applications - directly applicable to designing precise API design and optimization challenges for AI model training.
- Debugged and resolved application-level issues, applying structured root-cause analysis to improve system reliability and performance - the same analytical rigour required to evaluate AI-generated code for correctness and best-practice adherence.
- Maintained technical documentation, developing concise and accurate written communication skills essential for authoring well-specified software engineering questions.

Software Engineer · Zendawa

May 2024 - Dec 2024 | Kenya

- Designed and implemented robust REST APIs to improve application functionality within a fast-moving healthtech startup environment, gaining practical experience with real-world API design constraints and tradeoffs.
- Collaborated with cross-functional teams using agile project management practices, refining the structured communication and iterative thinking central to producing consistent, high-quality AI training content.

- Contributed to system architecture discussions and REST API design decisions, building the system-level thinking needed to craft challenging, educationally sound coding scenarios.

EDUCATION

BSc Information Technology · Kabarak University, Nakuru, Kenya

Sep 2020 - Dec 2024

Relevant coursework: Algorithms & Data Structures · Software Engineering · Database Management Systems · Web Development · Object-Oriented Programming · Computer Networking · Systems Analysis & Design

CERTIFICATIONS

Microsoft Certified: Fabric Data Engineer Associate	Microsoft
Migrate VMware to Azure Virtual Machines - Skilled	Microsoft
Python for Data Science	Microsoft / LinkedIn
Career Essentials in Software Development	Microsoft & LinkedIn
Data Visualization	Microsoft / LinkedIn

SKILLS

Languages	Python, TypeScript, JavaScript, SQL
Frameworks	FastAPI, modern JavaScript frameworks, REST API design & integration
Testing	Unit testing, smoke testing, test case design, regression testing principles
Databases	SQL, MySQL - schema design, query writing, data validation
Dev Tools	Git, GitHub, VS Code, CI/CD pipelines (basic), deployment pipelines
Cloud & Data	Microsoft Azure (VMware migration), Microsoft Fabric (Data Engineering), data visualization
CS Concepts	Algorithms, data structures, OOP, system design, debugging, API optimization
Soft Skills	Technical writing, cross-team collaboration, agile workflows, remote communication