

# Emmanuel Langat

FULL STACK SOFTWARE ENGINEER

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## Summary

- Experience in analysis, design, development, and implementation of various applications and client-server architectures using Java, Spring, Python/Django, JavaScript/React, Node.js, and TypeScript – spanning the entire Software Development Life Cycle.
- Proficient with Docker for containerization and Kubernetes for container orchestration.
- Experience working within an Agile/Scrum workflow.
- Strong documentation skills, ability to meet deadlines, and ability to effectively collaborate within a cross-functional environment.
- Skilled in building scalable, low-latency backend and full-stack software systems.
- Experienced in DevSecOps using tools such as Kubernetes, Terraform, Prometheus, and Jenkins.

## Experience

### Etinx ( Ndovu ) March 2023 - May 2025

Senior software engineer

Remote

🔗 <https://ndovu.co>

- Leading integrations into various bank APIs to enable payment processing, resulting in a 15% increase in deposits and withdrawals.
- Architected and implemented the dividend and interest payment feature, automating the entire process and achieving 99.95% accuracy in payout calculations while reducing processing time for the operations team by 99%.
- Architected and implemented the recurring investments feature, enabling seamless and automated investments into the Ndovu Money Market Fund (MMF) and other ETFs.
- Refactored the backend architecture to support country-specific investment funds, enabling expansion into new markets in Rwanda and Uganda.
- Implemented MPESA automated reconciliations, resulting in a 90% increase in reconciliation time speed and efficiency, thereby saving the operations team close to 4 hours daily.
- Implemented the live pricing feature and associated cron jobs. resulting in greater transparency for end users.
- Led the development of a USSD application using NestJS, improving platform accessibility for users with low-end mobile devices.
- Refactored the admin portal (frontend using ReactJS), leading to a better user experience.
- Worked on the wallets feature for the project, resulting in a seamless withdrawal and deposit process.
- When applicable, manage and supervise a team of junior developers.
- Led the deployment of Camunda instances to an AWS ECS cluster.
- Performing periodic DevSecOps tasks using AWS services – EC2, ECS, RDS, ECR, Lambda, and RDS.

### Kodally

JUNE 2022 - MARCH 2023

Nairobi, Kenya

Senior Backend Engineer

- Led a team of 2 developers in decomposing a Django monolith into various microservices with minimal downtime.

**Stack used:** Python (Django) and TypeScript (NestJS).

- Led the design and development of an employee bonus management system used by over 3,000 employees with minimal downtime and deployment.

- Led the design and development of a leave management system used by over 6,000 employees of the company thereby reducing hr's leave management workload by 70% and improving employee leave reporting and taking accuracy by 90%.

- In charge of DevOps tasks in the company and authored the Kodally DevOps Handbook – a set of DevOps and code best practices to be replicated by every team member. This has resulted in seamless code migration and faster new-hire onboarding.

- Led the development of a notifications service and streamlined it to meet business requirements.

- Led the development of a cron job using Django and Celery.

- Responsible for maintaining and developing all parts of the existing system.

- Responsible for planning and implementing model data structures for scalability.

- Responsible for designing, building, documenting, and testing APIs using Swagger and Postman.

- Working on the maintenance and improvement of existing code.

- Responsible for researching, evaluating, and analysing technical and design requirements.

- Responsible for troubleshooting and fixing bugs/flaws to ensure servers run optimally.

- Leading the team in leveraging third-party APIs to build integrations with other systems.

### Etinx ( Healthflow )

JAN 2021 - JUNE 2020

Remote

Full stack software engineer

🔗 <https://www.healthflow.io/>

- Performed requirement analysis, design and test management of the system.

- Performed DevOps tasks and successfully hosted the applications in AWS.

- Led the backend development team in developing three client applications using Node, Typescript, Python and /or

PostgreSQL / Mongo based on the technical requirements.

- Provided regular support to the Front-end team on issues that required clarification.

- Responsible for integration of third-party APIs and services into the systems under development.

- Held bi-weekly showcases with the business team (client) for feedback.

### Etinx

AUG 2020-DEC 2020

Remote

Junior software engineer

- Performed requirement analysis, design and test management of the system.

- Performed DevOps tasks and successfully hosted the application in AWS Elastic Beanstalk for the Backend, AWS RDS as a DB provider and AWS Amplify for the Frontend

• Led the development of the backend of a ussd application using Node-Express for the Backend and PostgreSQL as

the database

- Developed the admin portal of the application using React and Redux for state management.

- Led the integration of Africa's talking USSD and SMS services.

- Held bi-weekly showcases with the business team (client) for feedback.

## Education

### Laikipia University

SEPT 2016 - AUG 2021

BSC Computer Science

🔗 <https://laikipia.ac.ke/>

Courses: Analysis of algorithms, data structures, Programming, Networking, Database management, Blockchain technology and IOT.

## Technologies

Python	Node.js	TypeScript	System Design	Microservices
Docker	Kubernetes	API Integrations	Event driven Programming	Java
SpringBoot	NestJS	Django	IBM ESB	IBM App Connect
API Design	AWS	Continuous Integration	Continuous Delivery	

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