LANGAT NICKSON

SOFTWARE ENGINEER

I'm a self taught full stack software engineer with a knack for perfection and gifted with a strong desire to write beautiful, clean and maintainable code. I'm passionate about the accessibility of tech, secure coding and mental awareness. I look forward to working on a team that's customer oriented and passionate about their product.

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EXPERIENCE

Ajua (Msurvey), Nairobi –*Platform Engineer (Consultancy)*

SEP 2021 - MARCH 2022

- Configured and Maintained MongoDB and PostgreSQL engines for the merchant API, company's flagship product in partnership with MTN Nigeria.
- Implemented API endpoints for various merchant operations like Ads,Offers and Discounts to customers.
- Integrated the Merchant API with both Facebook and Instagram Marketing API for Ad campaigns to increase reach and target more sales.
- Worked on the USSD backend to facilitate merchant payments via USSD.
- Constantly Offered design and architectural insights to the CTO and product managers to ensure that the tech stack is one which is accommodating to both existing engineers and future engineers.

Adrian Kenya Limited, Nairobi –*Back–End & DevOps Engineer(Consultancy)*

MAY 2020 - SEP 2021

- Maintained and improved API performance by optimizing the databases ,Django ORM and Rest Framework serializers. This smoothened consumption of the endpoints by the front end team.

- Containerized the back end API using docker and this ensured efficient resource utilization thus saving on costs while allowing fellow devs to run similar images without breaks.

- Wrote thorough enough end to end tests for the API endpoints and unit tests for different parts of code enabling us to quickly fix bugs before deploying to production.

- Set up CI/CD for API & front end using CircleCi for tests automation & server deployments eliminating the need to manually check things up & focus on implementing new features.

- Configured NGINX to act as load balancer distributing incoming traffic to our servers resulting in improved performance, scalability & reliability of our web platform.

- Introduced database replication strategy to increase read speeds. Configured one master for writes and two slave databases for reads thus offloading too much workload on the main databases.

LANGUAGES

PYTHON.

JAVASCRIPT

TYPESCRIPT

GOLANG

BACK-END
DJANGO,FASTAPI,
DJANGO REST FRAMEWORK
FLASK,CELERY,REDIS,
RABBITMQ, ELASTICSEARCH

FRONT-END
ANGULAR,VUE,IONIC,
HTML,TAILWIND CSS

DATABASES
POSTGRES,MYSQL
FIREBASE,MONGODB

SERVERS
AWS,ORACLE
DIGITAL OCEAN
GCP

ENVIRONMENTS
UNIX,LINUX MINT/UBUNTU,
WINDOWS

VERSIONING & CI/CD
GIT,CIRCLECI
DOCKER,K8s

Pula.io, Nairobi — *Full-Stack Engineer*

APRIL 2019 - APRIL 2021

- Defined & designed back end solutions and software components along with detailed documentation that can be used by developers internally.

- Developed and improved features for different areas for our back end thus boosting performance.

- Ensured that security & quality assurance best practices are followed throughout the entire software development cycle.

- Run & monitored performance tests on new & existing software for the purposes of correcting mistakes, isolating areas for improvement and general debugging.

- Performed deployment and source control utilizing GIT at regular intervals.

Weza ProSoft, Nairobi — *Back-End Engineer*

JAN 2018 - JAN 2019

- Involved in the designing user interface and experience of the website.

- Wrote the code responsible for the front end as well as back end architecture of the website.

- Created the servers and databases for smooth functionality and interactions of web pages.

- Paid attention to mobile responsiveness thus achieving cross-platform optimization for mobile phones.

- Designed and developed company APIs as well as ensuring they are constantly maintained following industry best practices.

PROJECTS

Finlays ERP — *https://github.com/nicksonlangat/finlays_frontend*

Platform for tea estates/farmers. Team leaders use the modules for recording daily plucked weights by employees, manage employee information, record and approve leave requests and prepare and disburse payroll payslips.

iGamer — *https://github.com/nicksonlangat/igamer*

Platform that offers best game titles at discounted prices. Players can browse through a wide range of games and can checkout and get their digital copy and license to play their favorite games.

Med-Manager App —
https://github.com/nicksonlangat/med-manager

Med Manager is an app that a patient can use to remind them to take their medicine and keep a track of their intake.

Mythicals App — *https://github.com/nicksonlangat/mythicals-app*

A mobile app that users can use to read about mythical beings and worlds of fantasy. Users can bookmark mythicals or mark them as favorites.

Easy Pay App — *https://github.com/nicksonlangat/billsapp*

A mobile app that users can use to purchase electricity tokens. Frequently used phone and meter numbers are stored for ease of use in future.

Bus Yetu USSD —
https://github.com/nicksonlangat/django_at_ussd

Built an offline USSD app that helps passengers book buses at the comfort of their houses eliminating the manual process of queuing to get bus tickets. Users can also check ticket status and cancel a ticket. I plan to add a payment gateway.

Kwyk Shoppers' App —
https://play.google.com/store/apps/details?id=io.kwik.lipa

Developed this app which allows users to browse through a wide range of products, add to cart, choose payment option then proceed to checkout and submit order.

Kwyk Merchants' App—
https://play.google.com/store/apps/details?id=io.kwikApp.merchant

Developed a sister app to Kwyk but for merchants on the platform. They use it to upload new products, see sales data and interact with fellow merchants.

Kwyk Riders' App —
https://play.google.com/store/apps/details?id=com.kwikdrivers

Developed a sister app to Kwyk above but for riders who use it to fulfill customer orders. It has geo-feature for rider location tracking.

Adrian Support Ticketing System —
https://support-portal.adriangroup.app/

The system handles assigning & reassigning of issue/complaint tickets to technicians across all departments at Adrian. It has an automated email notification service, ticket analytics dashboard and also it can create tickets by reading through a department's Microsoft Outlook inbox.

Adrian Fleet Management System —
https://arp.adriangroup.app/#/casual/report

Company vans and trucks needed a system that can be used to request fuel refills, track location and report issues. I built the API for it factoring in all the requirements and it is one of the most used systems at Adrian.

BLOG ARTICLES AUTHORED

- [How to use charts to visualize Django Models](#)
- [How to deploy a FastAPI app to AWS EC2 server](#)
- [Collect payments in your Django ecommerce portal using Flutterwave ~PART 1](#)
- [Collect payments in your Django ecommerce portal using Flutterwave ~PART 2](#)
- [Understanding Errors in Python](#)
- [Schedule & send rent invoices to tenants at regular intervals using Django & AfricasTalking API](#)
- [Solving The Move Zeroes Challenge in Python](#)
- [Access bus booking services using Django & AfricasTalking API](#)