Arnold Nderitu Muriuki

Contact Information

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Work Experience

Software Engineer
FACTS Africa
April 2021 - Current

I worked on the development of a supply chain financing platform. The platform conglomerates supply chain stakeholders – funders, suppliers, and buyers – to efficiently manage the financing cycle.

I built the platform's backend using Python's Django framework, PostgreSQL for a Relational Database Management System, and HTML, CSS, and JavaScript for the front end. I hosted it on Amazon's EC2 instances, running on Gunicorn HTTP web server and Nginx for reverse proxy.

Achievements:
- Improved the company's bottom line by reducing the company's expenses by building a graphical analytics module using chart.js.
- Reinforced data protection by building bash scripts to automate data backup from UNIX-based servers to the cloud on AWS' S3.
- Optimized the platform's performance and user experience by implementing asynchronous tasks using Redis.
- Implementation of a Single Sign-On mechanism for multiple applications.
- Built REST APIs
- Delivered all required features within allotted periods.

Technical Lead
WazInsure Services Ltd
Nairobi, Kenya
February 2020 – December 2020

I led an engineering team of two in building the company's suite of mobile and web-based software solutions. We employed the following tools, technologies, and infrastructure: - Python (Flask), Node.js & C#, Kotlin, PostgreSQL, Gunicorn, Nginx, Digital Ocean droplets, Gitlab, and Slack.

Achievements:
- Implemented SSH as a more secure and reliable way of accessing and securing the company's servers from the traditional username and password access.

- Worked on a prioritization model for attaching value to tasks, features, and scenarios to determine what gets done based on priority.
- I Incorporated a means of tracking and reviewing the work being done by the team. I used webhooks to integrate our Gitlab repositories with Slack and would receive notifications whenever code commits were pushed. I'd then assess the work done against whatever each team member had indicated they'd do for the day during the daily stand-up.
- Conducted pair-programming sessions that helped to better diffuse knowledge.

Software Developer
Tech Factory Ltd
Nairobi, Kenya
April 2019 – November 2019

Worked on an 8-month project that required the development of a web-based application for medical researchers to be used for meta-analysis.

The service was built with a micro-services architecture comprising of:
- An authentication service built-in Flask with a Postgres DB
- An article fetcher service also built with Flask that consumed two external APIs (PubMed and Medline medical databases) retrieving medical articles in XML format.
- A queuing system built-in Django to post articles retrieved from the APIs to Mongo DB.
- An API gateway service built-in Node.js connecting the services.

Applications Specialist
Deloitte East Africa,
Nairobi, Kenya
November 2017 – March 2019
- Worked on building business applications that support the firm's internal operations.
- Built an expense management system using ASP.NET Web Forms, MS SQL Server.
- Built a system for onboarding contractors using ASP.NET Web Forms, MS SQL Server.
- Drove Microsoft Teams' awareness, adoption, and education throughout the East Africa region.