JOSEPH ODUR

Software Engineer

2 + 256 77761	745
----------------------	-----

☑ odurjoseph8@gmail.com



Kampala, Uganda

I'm a dynamic, hands-on, detail-oriented, and highly analytical Software Engineer with 3+ years in the industry. I specialise in building modern software applications using the latest technologies and engineering methods. I am well-versed with Requirement analysis, Object-Oriented design, design patterns, versioning, agile and test-driven development.

WORK EXPERIENCE

Software Engineer

08/2020 - Present

AirQo, Kampala, Uganda

AirQo is Africa's leading air quality monitoring, research and analytics network. AirQo uses low cost technologies and AI to close the gaps in air quality data across the continent with a goal to find data-driven solutions to air quality challenges.

- Work closely with the DS team to integrate heat-map/calibrate models onto the NetManager platform.
- Collaborating with teammates to improve the existing micro-service architecture.
- Implemented **platform to monitor and test the functionality** of sensor components on remote devices.
- Visualizing data using maps and charts to show air-quality and devices information
- Managing the implementation of outsourced applications/tools by external
- Implementing user feedback to improve on user experience of the platform application.
- Consumed REST API endpoints to feed data into the different parts of the application.
- Testing existing API endpoints

Tech Stack:

 Microservice-Architecture
 Python
 Node
 MongoDB
 GCP
 Redis

 MapBox.js

Software Engineer (Contractor)

08/2019 - 01/2020

GitPrime/Pluralsight Flow, Farmington, USA

GitPrime/Pluralsight Flow aggregates data from git repositories such as Github, BitBucket etc; ticketing systems such as Jira etc; cloud platforms (Azure, AWS etc), and Pull Requests and transforms them into easy to understand insights and reports. With visibility into the software development process. This helps engineering organizations map initiatives to outcomes, adjust processes with confidence, and advocate for their teams with facts instead of feelings. The key functionalities included;

- Performed Database and Query Optimization i.e identifying slow query statements and optimizing or splitting them up to speed up the report generation process.
- **Build Repository inspection interface**. This helps in verifying and replaying customer repository-related issues in order to understand the cause of the issue and implement possible fixes.
- Implemented Partition-Based query to improve the performance of API endpoints for customers with enormous data.

SKILLS

•	υ		L	,,	IAI	W	

Python(Django/Flask)
JavaScript/TypeScript
React
JSON/XML
Git
Bash
Postgres
HTML/CSS
GraphQl
Docker
C/C++
Golang
Machine Learning
CLOUD
AWS

DEVOPS

CI/CD

Github

Travis

Circle-CI

- Implemented Deferred and Advanced filtering in order to sort API data filtering/query parameters according to the complexity of the backend filtering logic.
- Consumed REST API endpoints to feed data into the different parts of the application.
- Involved in testing existing API endpoints

Tech Stack:

(Python/Django Postgres React/Flow React-Redux Bash Redis

Software Engineer

06/2018 - 04/2020 HOBBIES

2012 - 2013

EDUCATION

ENGINEERING

2014 - 2019

A-LEVEL

TELECOMMUNICATIONS

ST. MARY'S COLLEGE, KISUBI

MAKERERE UNIVERSITY

BSC-

LEARNING NEW TECHS **BOARD GAMES**

SOCCER

Andela, Kampala, Uganda

Andela invests in Africa's most talented software engineers to help companies solve the technical talent shortage and build high-performing distributed engineering teams.

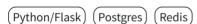
- Worked on an internal company product called Activo. This web app is helping the company to manage inventory and act as a single source of truth for information regarding the state of every company asset. Below are some of the functionalities I worked on:
 - 1. Implemented Role-Based Authentication to give users different level of privileges to the underlying resources.
 - 2. Testing and documenting existing APIS using swagger.
 - 3. Consumed REST API endpoints to feed data into the different parts of the application.

Tech Stack:



· Worked on AndelaEats, a web application that helps the company to manage catering services and employees to pre-order launch and breakfast as early as a day before. Some of the features I implemented include integrating the applications authentication system with the company's login system. Integrating NFC cards with the system such that users simply swipe the card and their order information is displayed to the caterers.

Tech Stack:



• Worked on a blogging platform called Authors Haven - A creative platform where authors can create blogs and build a following of readers that comment, like, favourite, and share the blogs on social media platforms. My main role on this was **Technical Team Lead (TTL)**, leading and guiding a team of developers to ensure a delivery of a robust application while following the industry best standards. **Tech Stack:**

Python/Django/Rest-Framework React React-Redux

Software Engineer (Intern)

06/2016 - 11/2017

MTN Uganda LTD, Kampala, Uganda

MTN Uganda is the largest telecommunications service provider in Uganda. The key features/ functionalities that I performed/implemented include;

- Designed and built a web-based monitoring application that consolidated all data from all the Watchdog monitoring devices from all the various data centres across East Africa in a single dashboard. This platform alerted responsible personnels incase the data centre conditions (Temperature, Humidity, Airflow etc) are beyond the set threshold values.
- Parsed and dumped XML data into MySQL database
- Visualised the dumped data using Chart.js to give trends into the data centres.
- Built the admin dashboard to facilitate the overall application management.

Other responsibilities included;

• Designed and built Value Added Service (VAS) applications.

- Carried out network optimisation activities such as drive tests within the "complaint" area and came up with quick solutions.
- Inspected fibre lines and accepted these fibre projects done by subcontractors within Kampala, inspection involved testing the fibre from one end, ensuring that are are no major losses within the transmission line, the physical appearance of the man-holes and did the final acceptance where necessary.
- Surveyed the Arua-Koboko route for the laying new fibre line. This involved measuring the actual fibre route and taking note of obstacles such as drainage systems and rocky grounds.

Tech Stack:



