







Lyle Okoth

Junior Software Engineer

As a self-taught Software Engineer, I Design, Develop, Test, Deploy and Maintain Scalable microservices for web based companies. My key role is to ensure that not only are the services always available and usable by the end user but that they are provisioned with the right cloud infrastructure that strike a good balance between scalability and cost effectiveness.

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PROJECTS

AWS Deployment

A flask application that enables an admin to register and create new users deployed to AWS with the following features:

- Hosted an AWS EC2 instance.
- Logging using AWS Firehose and AWS OpenSearch.
- Email sending with AWS SES.
- Documentation with mkdocs and swagger.
- PostgreSQL database using AWS RDS.
- Secrets management using Hashicorp Vault and Consul.
- Authorization using JSON web Tokens.
- Deployed with gunicorn nginx and a custom domain name.
- Auto-deployed to AWS using GitHub Actions

Code Coverage Monitor Platform

A web app that monitors code coverage for python apps hosted on GitHub with the following features:

- Hosted on Linode.
- Logging using Elastic Search Kibana and Logstash.
- Email sending with AWS SES.
- Documentation with mkdocs and swagger.
- PostgreSQL database.
- Secrets management using Hashicorp Vault and Consul
- Authorization using JSON web Tokens.
- Deployed with gunicorn nginx and a custom domain name.
- Auto-deployed to Linode using GitHub Actions

Heroku Deployment

A containerized flask application that enables an admin to register and create new users deployed to Heroku with the following features:

- Hosted on Heroku.
- Logging using AWS Firehose and AWS OpenSearch
- Email sending with AWS SES.
- Documentation with mkdocs and swagger.
- PostgreSQL database provisioned with Heroku.
- Authorization using JSON web Tokens.
- Deployed with gunicorn and nginx.
- Auto-deployed to Heroku using GitHub Actions.

WORK EXPERIENCE

Founder and Robotics Engineer 02/2021 - 12/2021

Oryks Robotics
Achievements

- Created an autonomous mobile robot prototype for warehouse operations.

TECHNICAL SKILLS

Backend Developer

Designing, Developing, Testing, Deploying, Documenting and Maintaining scalable microservices using:

- Python, Flask, MongoDB and PostgreSQL
- Testing with Postman and Pytest.
- Documentation using swagger and mkdocs
- Code versioning using Git and hosting on GitHub.
- Secrets management using Hashicorp Vault and Consul.
- Logging using Elastic search Kibana and Logstash as well as AWS Firehose and Opensearch.
- Agile development with JIRA.

DevOps Engineer

Provisioning cloud resources for scalable microservices across different cloud providers including Heroku, Linode and AWS as well as setting up automated development workflows using git, GitHub Actions and deployment using Docker. Core competencies include:

- Heroku.
- Linux (Ubuntu)
- Git and GitHub
- Linode.
- AWS EC2, RDS, OpenSearch, SES Route53
- Docker.

Technical Writer

Regularly write on medium on technical topics especially on backend development and devops.

PRESENTATION SKILLS

Microsoft Suite - Excel, Word and Powerpoint

Adobe Suite - Indesign and Acrobat

EDUCATION

Google Cloud Associate Engineer

06/2022– present

Andela

Entrepreneurship

08/2021– 02/2021

Savvy Fellowship

Mechatronics Engineering

08/2016– 08/2019

JKUAT

High School Diploma

02/2012 – 11/2015

Friends School Kamusinga