

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.

✉ okothlyleochieng@gmail.com 📞 +254748242806 📍 Nairobi 🐙 github.com/twyle 🌐 linkedin.com/in/lyleokoth 📄 medium.com/@lyle-okoth

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 with 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 AWS.
- Logging using AWS Firehose and AWS OpenSearch.
- 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 with GitHub Actions.

AWS Containerized Deployment

A containerized 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.
- Secrets management using Hashicorp Vault and Consul.
- Authorization using JSON web Tokens.
- Deployed with gunicorn, traefik and a custom domain name and GitHub Actions.

WORK EXPERIENCE

Founder and Robotics Engineer

Oryks Robotics

Achievements

- Created an autonomous mobile robot prototype used in moving palettes in warehouses.

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:

- Linux (Ubuntu)
- Git and GitHub.
- Heroku.
- 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– 06/2021

JKUAT

High School Diploma

02/2012 – 11/2015

Friends School Kamusinga