

LYLE OKOTH

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[linkedin](#) • [github](#) • [medium](#) • [portfolio](#)

SOFTWARE ENGINEER

A software engineer with experience designing, developing and testing REST APIs that are highly available and highly scalable. Built, tested, and documented open-source projects that integrate with MPesa and Stripe for payment and deployed them to Amazon Web Services. Looking for opportunities to leverage Python, Django and React to build microservices for the finance, healthcare or e-commerce industry in a collaborative environment. Solid understanding of the following:

- *Microservices • REST • JSON • CI/CD • Test Driven Development • Object Oriented Design • Technical Writing*
- *Agile Methodologies • Containerization • Model View Controller*

PROFFESIONAL EXPERIENCE

Oryks Robotics • 02/2021 - 02/2022

SOFTWARE ENGINEER

A startup aiming to automate warehouse logistics for e-commerce operators.

Responsibilities | Tasks

- Built software for reading sensor data from lidars, cameras and wheel encoders using Raspberry Pi's and Arduino based microcontrollers.
- Developed perception and navigation algorithms using the Robot Operating System (ROS) for indoor navigation.
- Provided and managed ECS and EK8 clusters on Amazon Web Services.
- Created and maintained CI/CD pipelines using GitHub, GitHub Actions and Amazon Codepipeline .

Achievements

- Reduced software deployment time by 90% by containerizing the software and using GitHub actions for building and deploying updates.
- Created and participated in investor pitches to raise capital for the company.

PROFESSIONAL EDUCATION

B.Sc. in Mechatronics Engineering • 2016 –2019

Jommo Kenyatta University of Agriculture and Technology • Nairobi, Kenya

Member • Society of Engineering Students (SES)

Relevant coursework: • C, C++ Programming • Solidworks

TECHNICAL SKILLS

• *Python • Django • React • PostgreSQL • Amazon Web Services • SQL • Flask*

COURSEWORK | CERTIFICATIONS

• ALX Africa • Software Engineering Bootcamp • 07/2022 - 08/2023

PROJECTS

[Blog App](#) | Flask • React • AWS • Celery

A web application that enables a user to create edit, view, delete and update articles. Has a custom recommendation, content moderation and payment system. Deployed to AWS ECS using terraform.