

LYLE OKOTH

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FULLSTACK SOFTWARE ENGINEER

A full stack software engineer who has built and deployed a website that finds and recommends python programming videos from YouTube, a python library that wraps around the YouTube V3 API and a social application for sharing photos and messages. I have a solid understanding of the following computer science concepts:

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

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 • JavaScript • PostgreSQL • Amazon Web Services • SQL • Flask • Elasticsearch*

COURSEWORK | CERTIFICATIONS

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

PROJECTS

• **Python Programming Video Finder:** A website that finds and recommends python programming videos from YouTube.

• **YouTube V3 API wrapper(ayv):** A python library that wraps around the YouTube V3 API and enables the user to get information on YouTube resources such as Videos, Playlists, Channels and Comments.