

LYLE OKOTH

SOFTWARE ENGINEER

+254797668066 • okothlylechieng@gmail.com • Nairobi, Kenya

• <https://www.linkedin.com/in/lyle-okoth/> • <https://github.com/twyle> • <https://medium.com/@lyle-okoth> • <https://lyle-okoth.oryks-sytem.com/>

PROFESSIONAL EXPERIENCE

Oryks System • 04/2023 - present

SOFTWARE ENGINEER

- Designed the backend architecture and the database schema for the backend service making the service usable with different databases and python web frameworks.
- Automated the data acquisition from GitHub by building a data pipeline that regularly sources processes and stores the relevant data.
- Implemented a deployment pipeline with github actions that significantly sped up the delivery of newer versions of the service.
- Introduced the use of terraform for managing Amazon Web Services resources making it easier to quickly set and destroy resources especially during tests.
- Developed a caching module for the read-heavy operations reducing the response times from seconds to milliseconds.
- Did technical documentation, both internal and user-facing making it easier to onboard new engineers and the product easier for use by potential users.

Oryks Robotics • 02/2021 - 02/2022

ROBOTICS ENGINEER

- Designed components that were easier to 3-D print increasing the iteration times.
- Redesigned components removing any extra features and complex parts hence saving on materials..
- Built software for reading sensor data from lidars, cameras and wheel encoders using Raspberry Pi's and Arduino based microcontrollers with python..
- Developed perception and navigation algorithms using the Robot Operating System (ROS) for indoor navigation.
- Created and maintained CI/CD pipelines using GitHub, GitHub Actions and Amazon Codepipeline .

TECHNICAL SKILLS

• *Python • JavaScript • React • PostgreSQL • Amazon Web Services • SQL • Flask • Elasticsearch • Celery • Redis*

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 • Matlab

COURSEWORK | CERTIFICATIONS

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

PROJECTS

• **YouTube V3 Wrapper (ayv):** A python library that wraps around the YouTube V3 API and enables the content creators to manage YouTube resources such as Videos, Playlists, Channels and Comments.

• **YouTube Stats API:** An API that provides developers and analysts with stats on Videos, Channels and Playlists for Kenyan Content creators..