

LYLE OKOTH

SOFTWARE ENGINEER

+254797668066 • okothlyleochieng@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 SUMMARY

A software engineer with 3+ years experience building and deploying scalable web and desktop applications with python. Founder and software engineer at Oryks Systems.

PROFESSIONAL EXPERIENCE

Oryks Systems • 01/2023 - present

Software Engineer

- Designed, built and documented a python library that wraps around the youtube api, reducing the amount of code and errors when interacting with the youtube api.
- Designed, built, documented and deployed the backend architecture that kept track of user data making our application safer for our users.
- Designed and built a chatbot that made the user experience for our users more fun and engaging.
- Designed and built AI agents that used chat-gpt to interpret user requests into commands that could easily be executed on youtube.
- Built data pipelines that sourced, preprocessed, analyzed and stored textual data from websites and pdf and word documents reducing the time for information retrieval.

KAPPS • 12/2019 - 08/2020

Software Engineer

- Did technical documentation, both internal and user-facing making it easier to onboard new engineers and our API easier to use by other third parties.
- Implemented a redis cache that significantly sped up the response to farmers queries.
- Implemented redis queues to decouple the two microservices that made up the backend increasing the overall resilience as well as speed of service delivery.
- Worked with the data scientists to implement redis workers for image ingestion, preprocessing and model prediction that significantly made our service faster.

TECHNICAL SKILLS

• *Python • JavaScript • PostgreSQL • Amazon Web Services • SQL • natural language processing • large language models • docker • flask • FastAPI*

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

PROJECTS

- **YouTube:** A python library that wraps around the YouTube V3 API and enables content creators to manage YouTube resources such as Videos, Playlists, Channels and Comments.
- **Butterfly:** A social media application for sharing images and messages.