**LYLE OKOTH**

+254797668066 • [okothlyleochieng@gmail.com](mailto:okothlyleochieng@gmail.com) • Nairobi, Kenya

[LinkedIn](https://www.linkedin.com/in/lyle-okoth/) • [GitHub](https://github.com/twyle) • [Medium](https://medium.com/@lyle-okoth) • [Portfolio](https://twyle.github.io/portfolio-simple/) • [Leetcode](https://leetcode.com/twyle/) • [Hackerrank](https://www.hackerrank.com/lyceokoth)

**SOFTWARE ENGINEER**

A software engineer that designs, develops and deploys web applications that leverage text analytics to improve search and recommendation systems for businesses with a solid grasp of the following software development concepts:

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

**TECHNICAL SKILLS**

***• Python • Flask • PostgreSQL • Amazon Web Services • SQL • SQLAlchemy• Docker• Celery • Elasticsearch• Terraform• Kubernetes• Spacy• Scikit-learn***

**PROFFESIONAL EXPERIENCE**

**SOFTWARE ENGINEER**

**Oryks Robotics • *02/2021 - 02/2022***

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

**Responsibilities | Tasks**

* Built software for reading sensor data from LIDAR’s, 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 Code pipeline.

Achievements

* Reduced software deployment time by 90% by containerizing the software and using GitHub actions for building and deploying updates.

**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

**COURSEWORK | CERTIFICATIONS**

* ALX Africa • Software Engineering Boot camp • *07/2022 - 08/2023*

**PERSONAL PROJECTS**

Search Service | Flask • AWS • Celery• Docker • Elasticsearch• Terraform | [GitHub](https://github.com/twyle/Search-Service.) | [Deployed Application](http://search-service-alb-39723001.us-east-1.elb.amazonaws.com/apidocs/)

* A web application consisting of two micro services: a blog service for registration of authors and the creation of articles and a search service for finding articles.
* Uses Elasticsearch to power the search functionality, PostgreSQL and AWS S3 for storage and celery with Redis for image upload.
* Microservices are containerized and deployed to AWS ECS using terraform and GitHub actions.