

# Lyle Okoth

Junior Software Engineer

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## SUMMARY

Experienced software developer. Enthusiastic about writing clean, efficient and accessible code in a functional framework. Committed to the total development life-cycle, the maintenance of code quality and bug free applications. Expert in leveraging the latest software tools to optimize scalability and up-time for micro-services especially within the robotics industry. A leader in identifying opportunities for applications development.

## PROFESSIONAL EXPERIENCE

**Oryks Robotics – Software Engineer**

**February 2021 – Present**

**Part Time**

### Responsibilities:

- Develop software interfaces for collecting and storing sensor information from Arduino microcontroller and Raspberry Pi using Python and C++.
- Develop navigation algorithms for autonomous mobile robots using the ROS framework.
- Develop and maintain CI/CD pipelines for building and deploying applications using Git, GitHub, AWS and Kubernetes.
- Provisioning cloud resources on AWS.

## PROFESSIONAL EDUCATION

- Jommo Kenyatta University of Agriculture and Technology, Bachelors in Mechatronics Engineering
- ALX, Software Engineer

## Languages

- English – C<sub>1</sub>
- Swahili – C<sub>2</sub>

## SKILLS

- Programming languages: Python, C++, Javascript
- Server-side Frameworks: Flask, Django
- Client-side Frameworks: React
- Other frameworks: Robot Operating System (ROS), TML, CSS, Bootstrap
- Unit Testing – Pytest, Unittest
- CI/CD and Versioning – git, docker, docker-compose, github actions, kubernetes, AWS (CodeBuild, CodeDeploy, Codepipeline)
- Feature Driven Development – Scrum, Test Driven Development (TDD)
- Databases and ORM: Postgres, MongoDB
- Operating Systems: Linux, Windows
- Logging: ELK stack
- Cloud: AWS (EC2, S3, ECS, EK8, ECR, CloudFormation), GCP

## TRAINING AND COURSES

- Cloud Developer – Udacity
- Associate Google Cloud Engineer – Pluralsight