LYLE OKOTH

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LinkedIn • GitHub • Medium • Portfolio • Leetcode • Hackerrank

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 | Deployed Application

- 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.