LYLE OKOTH

SOFTWARE ENGINEER

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PROFESSIONAL EXPERIENCE

Ubunifu farms • *08/2019 - 09/20221*

BACKEND DEVELOPER

• Implemented redis queues to decouple the two microservices that made up the backend increasing the overall resilience as well as speed of service delivery.
• Built a robust authentication and authorization feature that used both Google Auth and JSON Web tokens for the farmers and third party APIs.
• Worked with the data scientists to implement redis workers for image ingestion, preprocessing and model prediction that significantly made our service faster.
• Built a custom library for uploading images to AWS S3 using celery workers that significantly sped up the service.
• Designed the image storage on S3 to include both location and timestamps making it easier to later analyze them.
• Worked with our data scientists to build the search and recommendation engine that used elasticsearch to provide quick and accurate answers to farmers' questions.
• Implemented a redis cache that significantly sped up the response to farmers queries.
• 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.

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

PROJECTS

• **YouTube V3 Wrapper (ayv)**: 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.
• **YouTube Stats API**: An API that provides developers and analysts with stats on Videos, Channels and Playlists for Kenyan Content creators.
• **Flask Image**: A Flask extension that enables developers to preprocess and upload images to AWS S3 using celery tasks.