

Osodo Rodney David

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I am a highly skilled software engineer with a focus on Go development. I have a strong background in designing, building, and maintaining efficient and scalable software systems. I have used it to build a variety of applications, including distributed systems, microservices, and RESTful APIs. I have a strong understanding of the language's concurrency model and have experience using it to build concurrent and parallel applications. In addition to my technical skills, I am a strong team player with excellent communication and problem-solving abilities.

TECHNICAL SKILLS

Languages: Go, Rust, Python, C/C++, SQL (Postgres), Dart, HTML/CSS

Frameworks: Django, Flask, Go-Kit, Gin, PlatformIO, Flutter, SciKit-Learn

Developer Tools: Git, Docker, Kubernetes, TravisCI, Google Cloud Platform, Testing, Swagger

EDUCATION

IBM Summer School

Quantum Computing, Minor in Machine Learning

Sep. 2020 and Sep 2021

Online

Jomo Kenyatta University of Agriculture and Technology

Bachelor of Science in Mechatronics Engineering

Sep. 2017 – Dec 2022

Nairobi, KE

- Designed and fabricated a prototype mobile platform with holonomic and omnidirectional motion.
- Designed wearable device that helps the visually challenged people to accomplish their day to day task.

EXPERIENCE

Software Engineer

Remote, Nairobi

Jan 2022 – Present

Ultraviolet, Serbia

- Build, tested, documented and maintained Go backend micro-services.
- Intergrated a multi-broker, Nats, RabbitMQ or Kafka setup for the internal message broker.
- Design, developed, deployed a secure, robust, scalable authorization platform for the infrastructure.

Software Engineer

Juja, Nairobi

Jul 2019 – Present

Qualislabs, KE

- Worked with hardware and firmware engineers to build our API responsible for image processing.
- Build and maintained a Kubernetes cluster to handle all our API calls.
- Designing and implementing gRPC and Pub/Sub APIs.

Rocket Scientist Intern

Jomo Kenyatta University of Agriculture and Technology

Feb 2021 – May 2021 & Jan 2022 - Apr 2022

Nakuja Project, KE

- I was able to do a comprehensive design of the Avionics and Airframe rocket sub-systems.
- Implemented Kalman filter using sensor fusion to detect apogee.
- I was able to participate in the SRI conference and submitted a technical paper.

PROJECTS

12 factor IoT Application | *Docker, Github Actions, Platform IO, Makefile*

Sep 2021 – Oct 2021

- Implemented backend system using Docker to visualize and analyse the data.
- Implemented security to MQTTs by using Authentication and Authorization mechanisms.

Variational Quantum Classifier | *Python, Quantum Machine Learning*

Nov 2020 – Jan 2021

- Developed a Quantum Machine Learning Classifier.
- Carried out data exploration and cleaning of Heart attack data.
- Generalised the model with wine and iris datasets.

TECHNICAL EXPERIENCE

- Submitted a paper to the SRI conference held at JKUAT.
- Won the JKUAT Tech Expo 10.0.
- Got called to the IBM Quantum Africa Hackathon.
- Got accepted to the Quantum Open Source Foundation program.
- Regional Finalist at the IBM Call for Code Challenge.