# **Cosmas Nyairo**

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### **EXPERIENCE**

## **Safaricom PLC**

January 2022 - Present

DevSecOps Engineer I

Nairobi, Kenya

- Implemented cloud infrastructure, cloud architectural designs and cloud adoption plans.
- Deployed scalable and secure cloud infrastructure using Terraform for production, beta, and testing environments that helped champion the Infrastructure as Code initiative within the company.
- Planned, architected and implemented end to end CI/CD pipelines and automation workflows for microservices, web and mobile applications.
- Addition of testing and code quality checks directly into the pipeline to ensure code meets set thresholds.
- Continuously integrated security best practices and tools into cloud applications and CI/CD pipelines, in order to catch vulnerabilities early and aid in shifting security left.

**Safaricom PLC** 

**June 2021 - January 2022** 

DevOps Engineer

Nairobi, Kenya

- Worked on build and release pipelines for web and mobile applications that improved release frequencies and reduced manual deployments within squads.
- Maintenance of existing architecture through regular updates, setting up monitoring and alerting, aided in championing the Monitoring as Code initiative within the company using monaco.
- Utilized DevOps tools to orchestrate solutions for both on-premise and cloud applications.
- Leverage scripting to aid in automation of tasks in our pipelines and manual tasks done by different squads.
- Collaborated closely with squads towards the incorporation of agile and DevOps practices.

#### Strathmore Africa Data Analytics Center

**January 2020 - April 2020** 

Junior Developer

Nairobi, Kenya

- Developed a mobile application that aided in boosting the sales tracking as well as simplification of inventory by shopkeepers in Kenya.
- Trained on project development from design to deployment of the software as well as with Rest backend APIs.
- Worked on creation of UI designs for applications.

## **EDUCATION**

## **Strathmore University**

2017 - 2021

Bachelor of Informatics and Computer Science

Nairobi, Kenya

## **TECHNICAL SKILLS**

 Python, JavaScript, Golang, Terraform, Kubernetes, Docker, Bash Script, Jenkins, Git, Gitlab CI, Github Actions

## **CERTIFICATIONS**

- HashiCorp Certified: Terraform Associate
- Certified Kubernetes Application Developer (CKAD)

## **PROJECTS**

- Ehr Kenya Electronic Health Records Storage Application using Blockchain Technology created using Python and Flutter: <u>Blockchain-EHR</u>.
- Tembea Kenya An application to explore places to visit in Kenya under various categories: <u>Tembea Kenya</u>.
- Faida Estate Management System A web-based application designed to assist residents and the management committee in their operations within a residential estate: <u>Faida Estate</u>.
- Bisco Bike Sharing App Part of a team that aimed to solve the high demand of public service vehicles by allowing users to rent out bicycles and drop them off at designated spots.

#### **ARTICLES**

- Wrote a blog post on automated api gateway creation and management using terraform: <a href="https://dev.to/cosmasnyairo/aws-rest-api-gateway-using-terraform-k76">https://dev.to/cosmasnyairo/aws-rest-api-gateway-using-terraform-k76</a>.
- Co-Wrote a research paper regarding the project and presented it in the 17th ICT Conference (2019): Automated Estate Services Management System.
- Wrote a medium article documenting the development of the Tembea kenya application: <u>Making a Places to Visit app using Python and Flutter</u>.

#### **ACHIEVEMENTS**

Aws UserGroup Kenya

2022

Did a presentation on the three pillars of observability (Metrics, Traces and Logs) using aws cloudwatch and how to automate it using terraform:
 <a href="https://www.youtube.com/watch?v=iS4GqFwEnRM&ab\_channel=AWSUsergroupKenya">https://www.youtube.com/watch?v=iS4GqFwEnRM&ab\_channel=AWSUsergroupKenya</a>.

17th ICT Conference, Strathmore University

**March 2019** 

Co-presented a paper titled 'Automated Estate Services Management System' which demonstrated a
web-based system that assists residential estate management committees in their operations.

Nairobi Tech Week Hackathon

2019

• Developed and presented the bike sharing application in the Nairobi Tech Week Hackathon.