

# Michael Ngige

## SOFTWARE ENGINEER

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PORTFOLIO: <https://port0-tau.vercel.app/>

### Career Objective

I have expertise in developing applications as a full stack engineer developer. I am skilled in Flask, Django, Python, JavaScript and React. I have a thorough understanding of REST APIs protocol. I am skilled at integrating and managing microservices with introductory knowledge in Docker for deployment and containerization. Additionally, I've knowledge in Cassandra DB, PostgreSQL, Redis DB and MySQL database management systems. My expertise also includes working with messaging systems like RabbitMQ and optimizing speed with Redis caching.

### Experience

**Jan 2024 – March 2024 - SOFTWARE DEVELOPER.**

**THE FRANCIUM SOURCES COMPANY.**

- Projects handled:

1. Francium Mpesa G2 – Francium payment System payment API to coordinate transaction of customers using their wallet (Flask RESTful APIs)

2. Francium Sources User Interface System – A front end system to coordinate payments of customers working with a python Flask back-end design. (React with OAuth2 Authentication)

- Technologies used in projects: Python, and Flask for Micro services, React for web-based Applications, Rabbit MQ for Communication between micro services.

- Containerization: Docker Containers

- Cloud Hosting on AWS EC2 with GitHub CI/CD pipeline using docker files.

- Including: Google Map APIs.

- Database: MySQL and PostgreSQL, AWS Relational Databases.

- Servers: Apache, Heroku and AWS.

- AWS technologies: S3 bucket, load balancers, AWS far gate and AWS ECS

### **Responsibilities.**

- Collaborate with a team in designing, implementing, and integrating with other software programs.
- Build a true Hybrid Cloud Docker-based strategy while demonstrating expertise in diverse cloud providers such as AWS, Azure, and GCP
- Manage AWS and Git pipeline. Deploy React and Flask applications to AWS.
- Engage in all aspects of software development cycle including designing, coding, documentation, testing, and deployment
- Deliver software solutions to customers in strict adherence to agile methodology.
- Perform Web app deployments to c-panel and cloud platforms (Heroku and AWS).
- Designing, developing, and deploying modular cloud-based systems to grow the seamless approach in your experience
- Identifying, analyzing, and resolving infrastructure vulnerabilities and application deployment issues.

## **Education**

<b>Sept 2023 – Feb 2024</b>	<b>Moringa School</b> Software Engineering
<b>2013 – 2018</b>	<b>Moi University</b> Bachelor of Education
<b>2009 – 2012</b>	<b>Njenga Karume Secondary School</b> Kenya Certificate of Secondary Education

## **SKILLS**

- Frontend – JavaScript, React, Redux
- Backend frameworks – Flask, Django
- Databases – Relational Databases (MySQL and PostgreSQL), NoSQL Cassandra DB
- APIs – REST APIs, SOAP APIs, Google maps APIs
- Project management tools – click up, Trello
- Caching – Redis
- Optimization – Caching, Code refactoring, Optimized Queries
- Messaging Systems – Kafka, RabbitMQ
- Git – GitHub, Gitlab
- Security – JWT, OAuth1 and OAuth2

## **REFEREES**

**Gilbert Kipkorir**

Tech-Lead and Solution Architect

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