

# Michael Ngige

## SOFTWARE ENGINEER

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PORTFOLIO: <https://main-portfolio-nine-pearl.vercel.app/>

### Career Objective

I have four years of expertise in developing applications as a backend developer. I am skilled in Flask, Fast Apis, Django, Python, JavaScript and React. I have a thorough understanding of REST APIs and SOAP APIs protocols. I am skilled at integrating and managing microservices with extensive knowledge in Docker for deployment and containerization. Additionally, I've worked with Cassandra DB, PostgreSQL, Redis DB and MySQL database management systems. My expertise also includes working with messaging systems like RabbitMQ and Kafka and optimizing speed with Redis caching. In addition, I have experience in cloud computing platforms like Heroku, AWS EC2, and GCP.

### Experience

**NOV 2021– 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.

## **FEBRUARY 2021–AUGUST 2021 - JAVASCRIPT DEVELOPER**

### **Moon Landing Solutions Company**

#### ● Projects handled:

1. Histam website – This is a website to make documents available to clients who need them for a fee.

(React and PHP back-end with mpesa STK Push Integration).

2. Dial touch website – This is a static website entailing information about Dial touch Logistics.

## **MARCH 2020– DECEMBER 2020. - SOFTWARE DEVELOPER.**

### **SELF-EMPLOYED: FREELANCER**

1. High Tech Hospital Web App – this is a web Application that coordinates reception, doctor's prescription, and pharmacist in a hospital premise (React Web application dashboard, PHP for Business Logics)

☐ Technologies used in the project: React js, Django, bootstrap

☐ Databases: MySQL

## **Education**

**Sept 2023 – Feb 2024      Moringa School**

Software Engineering

**2013 – 2018                      Moi University**

Bachelor of Information Technology

**2009 – 2012                      Njenga Karume Secondary School**

Kenya Certificate of Secondary Education

## **SKILLS**

- Backend frameworks – Flask, Django, Nodejs
- 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
- Frontend – JavaScript, React

## **REFEREES**

### **Gilbert Kipkorir**

Tech-Lead and Solution Architect

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### **Collins Bett**

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