

Michael Ngige

SOFTWARE ENGINEER | BUSINESS ANALYST

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

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Career Objective

A versatile professional with a unique blend of Business Analysis and Full Stack Software Engineering expertise. Skilled in developing applications using Flask, Django, Python, JavaScript, and React, with a strong understanding of REST and SOAP APIs. Proficient in managing microservices, deploying with Docker, and handling databases such as Cassandra, PostgreSQL, Redis, and MySQL. Experienced in using tools like Jira, Git, SonarQube, Jenkins, and Sentry to ensure seamless project management, code quality, and application performance. My objective is to leverage both technical and analytical skills to drive the successful delivery of innovative software or business solutions that align with business goals.

Experience

Jan 2024 – BUSINESS ANALYST.

AGENCY LIMITED

• Projects handled:

1. Agencify Motor private product – onboard motor private product on the app from APA insurance and Takaful insurance and ensure they go live
2. Agencify Web portal – provide the roadmap for the web and oversee the agencify web portal go live
3. Agencify Motor Commercial product- onboard motor commercial on the app from concept to go live and continuous support

Technologies used:

- Jira – to manage and track the workflow within the sprints
- Power BI – for data visualization to be presented to stakeholders
- Git – for project tracking
- SonarQube and Jenkins – to monitor code quality and continuous integration
- Sentry - to monitor the performance of the Agencify App and capture errors in real time

Responsibilities

- Assist in gathering and documenting business requirements from stakeholders, ensuring clarity, completeness, and alignment with business objectives.
- Translate data, user research, and business goals into actionable insights, proposing products and features that deliver value to independent insurance agents and align with organizational objectives.
- Support the analysis of business processes, workflows, and systems to identify areas for optimization and efficiency improvement.
- Assist in the development and maintenance of detailed documentation, including business requirements documents, functional specifications, and process diagrams/flows.
- Participate in meetings and workshops with stakeholders to gather requirements, elicit feedback, and support the development of solutions.
- Support the analysis and interpretation of data to generate insights and recommendations, supporting data-driven decision-making across the organization.
- Assist in the development of test plans, test cases, and user acceptance criteria, and participate in testing (UATs) and quality assurance activities.
- Define clear success criteria for products and features, guiding them through analysis, design, delivery, and measuring outcomes against business goals.
- Provide support to project teams throughout the project lifecycle, assisting in project planning, execution, and stakeholder communication.
- Ensure the company Key Performance Indicators (KPIs) and Objectives and Key Results (OKRs) are met within the stipulated time – Quarterly and Sprints

Jan 2022 – Sept 2023 – SOFTWARE ENGINEER.

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

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 – Frontend 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 Django back-end with mpesa STK Push Integration).
2. Dial touch website – This is a static website entailing information about Dial touch Logistics.

Education

Sept 2023 – Feb 2024 Moringa School

Software Engineering

2013 – 2018 Moi University

Bachelor of Education

2009 – 2012 Njenga Karume Secondary School

Kenya Certificate of Secondary Education

SKILLS

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

- Databases – Relational Databases (MySQL and PostgreSQL), NoSQL
Cassandra DB , MongoDB
- APIs – REST APIs, SOAP APIs, Google maps APIs
- Project management tools – Jira
- Caching – Redis
- Optimization – Caching, Code refactoring, Optimized Queries
- Messaging Systems – Kafka, RabbitMQ
- Git – GitHub, Gitlab
- Security/Authentication and Authorization – JWT, OAuth1 and OAuth2

REFEREES

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