

Michael Ngige
Software Developer

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SUMMARY

A versatile professional with Full Stack Software development expertise. Skilled in developing applications using Python, Flask, Django, JavaScript, and React with a strong understanding of REST APIs. Proficient in managing microservices, deploying with CI/CD -GitHub Actions, and handling databases such as PostgreSQL, and MySQL. Experienced in using tools like Jira, Git, 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.

SKILLS

- Frontend – JavaScript, React
- Backend frameworks – Flask, Django
- Databases – Relational Databases (MySQL and PostgreSQL), NoSQL MongoDB
- APIs – REST APIs
- Project management tools – Jira
- Optimization – Caching, Code refactoring, Optimized Queries
- Messaging Systems – RabbitMQ
- Version control -Git
- Security/Authentication and Authorization – JWT and OAuth2

Projects

Agencify App -

<https://play.google.com/store/apps/details?id=insure.agencify.agencify>

Agencify CRM - <https://bozomu.agencify.insure/insurer/login>

The app links the independent insurance agents with insurers making selling insurance for them seamless and shorten the time up to maximum of five minutes only. The CRM is used to for the set ups of different insurance products on the App by different insurers.

The Francium Sources - <https://www.franciumsources.com/>

Mpesa integration B2B, C2B and B2C on ecommerce or e-wallets.

School management system – from admission, school fees collection and management

AuthTech - <https://authenticated.co.ke/>

A USSD service that is used to authenticate goods. The code is sent via USSD, it queries the database of a particular company to check whether that code exist. The feedback is sent instantly to the end user to let them know the authenticity.

OrderService API - | <https://orderservice2.onrender.com/accounts/login/>

<https://orderservice2.onrender.com/customers/> |

<https://orderservice2.onrender.com/orders/>

A simple API that the user logs in using google OPENID connect (Auth0), GitHub CI/CD, and when the order is placed the customer receives the SMS informing them of order details. Uses Africa's Talking API on their sandbox.

HRMS (In Progress) – <https://github.com/micheal-ngige/mgmentsserver>

<https://github.com/micheal-ngige/hrsclient>

All in one system to manage HR needs- attendance and management, performance management, Task and project management, Recruitment and onboarding.

EXPERIENCE

Sept 2024 – Dec

PRODUCT BUSINESS ANALYST INTERN

AGENCIFY LIMITED

● Projects handled:

- Agencify Motor private product – onboard motor private product on the app from APA insurance and Takaful insurance and ensure they go live
- Agencify Web portal – provide the roadmap for the web portal and oversee the agencify web portal go live
- 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
- Git – for project tracking
- SonarQube and Jenkins – to monitor code quality and continuous integration
- Sentry and KeyCloak - 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

Sept 2023 – June 2024 – SOFTWARE ENGINEER.

THE FRANCIUM SOURCES COMPANY.

- Projects handled:

1. Francium Mpesa integration – Francium payment System payment API to coordinate transaction of customers using their wallet

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.

- 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 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

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

References

Sam Mbugua

Co-Founder and Head of Product and Technology

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