TONY OTIM

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Professional Summary

Software Engineer with 7 years of experience designing, implementing, and scaling backend systems, RESTful APIs, and cloud native services using Python, TypeScript, React, and AWS. Experienced across banking, NGO, and startups, with a proven record of delivering secure, high-performance platforms that improve reliability, reduce costs, and scale to large user bases. Seeking full-time (W2) or contract roles in backend, full stack, focusing on scalability, security, and measurable business outcomes.

Education

M.Sc. Computer Science, Maharishi International University — Expected 2027
Relevant Coursework: Data Structures and Algorithms, Enterprise Architecture and Cloud Computing.

B.Sc. Computer Engineering, Makerere University — 2012 - 2016

Skills

Backend: Python (Django, Django Rest Framework, FastAPI, Flask), Celery, Kafka, RabbitMQ
Frontend: ReactJS, TypeScript, Tailwind CSS, Material UI, Redux
APIs and Security: RESTful APIs, GraphQL, SOAP, OAuth2/JWT, SAML SSO (Azure AD)
Databases: PostgreSQL, MySQL, MongoDB, Redis, MSSQL, DynamoDB, VectorDB
Cloud: AWS (EC2, EKS, EBS, EFS, S3, Lambda, CloudFormation, CloudWatch)
DevOps: Docker, Kubernetes, Jenkins, Terraform, Ansible
Testing and Quality: Pytest, Unit/Integration Testing, Cypress, Jest, CI/CD pipelines
Other Tools: GitHub, Jira, Confluence, Splunk, AppDynamics, Prometheus, IBM DataPower, LangChain

Professional Experience

PayPal — San Jose, California
Software Developer — March 2026 - Present

- Increased test coverage from 20% to 70%+ across multiple domains by building integration and end to end tests using Cypress, covering error states, redirects, and conditional data flows.
- Expanded unit test coverage to 80%+ using Vitest in Remix, improving overall code reliability.
- Resolved linting, CSS, and HTML typography violations across multiple domains, improving code consistency and adherence to engineering standards.
- Reduced test suite warnings and failures by cleaning up and stabilizing existing unit tests.

Stanbic Bank Uganda (Standard Bank Group) Kampala, Uganda
Software Engineer (Python, React) Jan 2021 - Oct 2024

- Built and deployed a real time document tracking system (Django Channels, Celery, Redis, PostgreSQL, AWS ECS, Azure AD SSO, ReactJS), reducing in-person branch visits by 20%.
- Redesigned bank statement generation service using DRF, ReactJS, PostgreSQL, and Celery improving reliability and processing speed by 30%.
- Developed a KYC compliance tool with role-based access using Django, ReactJS and PostgreSQL that increased risk analysis accuracy by 40%.
- Implemented real time ETL pipeline using Python and Airflow for log monitoring on Splunk and AppDynamics, improving system uptime and troubleshooting efficiency.
- Built microservice based integrations for core banking SOAP APIs using Flask, Kafka, SQLAlchemy, and Airflow, automating workflows and boosting agent transaction volume by 35%.
- Created a predictive ML credit scoring engine using Pandas, MatPlotLib, Seaborn, Numpy and FastAPI that improved loan approval accuracy and reduced default risk.
- Migrated inhouse banking applications to AWS Cloud implementing CI/CD using Terraform, Ansible, Jenkins, Docker and Kubernetes, reducing deployment time.

Makanika Dot Com (Automotive Services Startup) Kampala, Uganda
Lead Fullstack Developer (Python, React) Sept 2019 - Jan 2021

- Built a containerized, event-driven microservice for real time driver - mechanic matching using Django, DRF, Kafka, and Docker, deployed on AWS ECS, scaling to 10K+ concurrent users.
- Built a React Native mobile app (iOS and Android), reducing time-to-market by 50%.
- Built ReactJS frontend with Django backend, improving platform responsiveness and UX.

CivSource Africa (NGO Consultancy - Grant Management) Kampala, Uganda
Fullstack Software Developer (Python, React) Feb 2019 - Aug 2019

- Built a Grant Management System using Django, PostgreSQL, Jenkins CI/CD and ReactJS improving grant tracking and reporting efficiency by 50%.
- Designed application architecture and UIs in Figma and authored full technical documentation.

GoodCitizen Co. Ltd (Healthcare Technology Provider) Kampala, Uganda
Software Engineer (Python, Java) Jan 2018 - Jan 2019

- Developed a REST API using DRF and MongoDB for secure healthcare data delivery.
- Built a national epidemiological surveillance app (Java), improving reporting efficiency by 50%.

Oxfam Novib - Data Labs The Hague, Netherlands (Remote from Uganda)
Application Developer (Javascript, Android) Jul 2017 - Jun 2019

- Built a budget tracking app (Java, Parse Server) enabling farmers to manage their budgets.