

Chukwuemeka Chukwurah

Backend Systems

Email: emekaemmanuel045@gmail.com

Social Media:



SKILLS

Streaming: Kafka, Nats.io

Cloud: GCP, AWS

Programming Languages: Typescript, PHP, Golang, Java

Databases: PostgreSQL, MySQL, Redis, MongoDB, BigQuery

Monitoring: Grafana Loki, Prometheus, ElasticSearch

Infrastructure: Kubernetes, RabbitMQ, Temporal, Terraform

Miscellaneous: Linux Admin, Git, Agile, TDD, Design Patterns

Languages: English (Fluent)

EXPERIENCE

Rocksteady Technology: U.S.A — Backend Engineer [www.rocksteady.technology]

10/2023 - PRESENT

(Node.js, GCP, Kubernetes, Temporal, Java, AWS, Terraform)

- Built backends using NodeJS, Postgres and Temporal, resulting in successful handovers and end clients generating expected revenue.
- Built reusable express plugins for abstracting auth, payments, media handling and background workers.
- Optimised database architectures for a database holding hundreds of millions of records, resulting in a p99 of 20ms.
- Led a team of DevOps and software engineers in revamping a 38-year-old platform, integrating modern monitoring systems (Prometheus and Grafana), Kubernetes, and GitOps practices. this led to a 63% reduction in cloud costs and a 47% improvement in system latency.

Risevest: Lagos, Nigeria — Backend Engineer [risevest.com]

10/2021 - 12/2024

(Node.js, Golang, Kubernetes, RabbitMQ, PostgreSQL)

- Spearheaded the development of a Domain-Driven distributed system leveraging RabbitMQ, Nats.io, and backends built with TypeScript and Golang, deployed on AWS EKS, driving Assetbase's first \$400k transaction volume.
- Collaborated with the team to build a monitoring stack of Prometheus, Loki and Datadog to handle metrics and distributed tracing.
- Single-handedly built a service aggregating FX rates using third-party APIs, thereby reducing round-tripping crimes by 57% and aiding the finance team in a speedy recovery.
- Spearheaded automation initiatives and product-engineering syncs using Agile methodology, reducing task completion time by 40% and increasing team output by 20%.

Zeal professional services: Lagos, Nigeria — Backend Engineer [zealprofessional.co]

01/2021 - 12/2021

(Node.js, Docker, ECS, MongoDB)

- Built REST Typescript microservices to handle server-side management of frontedge.io. Leading to a successful launch campaign
- Built serverless functions using AWS Lambda Typescript to handle insurance policy validations and premium valuations, leading to a 72% improvement in policy generation that played a key role in the \$4M preseed of cassava.co.
- Partnered closely with the QA team to identify and resolve crucial production defects, significantly enhancing the product's reliability and stability.
- Built a multi-vendor verification system for local and international clients using Sumsub, Onfido, and Dojah.io, improving KYC and KYB response times from 2 working days to 15 minutes.
- Built and published an NPM package that manages queueing operations on SQL in a declarative manner; this played a significant role in responding to customer requests by 63%.
- Passionately contributed to team growth by actively mentoring and guiding colleagues on backend system best practices and architecture, fostering a culture of continuous learning and knowledge sharing.

Gorals Africa: Lagos, Nigeria — Backend Engineer [gorals.ng]

11/2019 - 01/2021

(Node.js, AWS, MongoDB)

- Developed Node.js GraphQL APIs deployed on EC2 instances, encapsulated in AWS VPC with RDS subnets, focused on seamless integration and communication between front-end and back-end systems.
- Implemented real-time audio-to-text using Amazon Transcribe to enhance timeliness and accuracy.
- Engaged in interview panels for service development recruitment, assessing candidates' technical skills and cultural fit.

Noviaworks Network: Lagos, Nigeria — Full-stack Engineer [www.noviaworks.net/]

05/2017 -

08/2019

(PHP Laravel, shared hosting, MySQL, Redis)

- Delivered web applications with PHP Laravel, optimising handover time and enhancing client satisfaction.
- Led transition from PHP/MySQL to Laravel, AWS SQS, and Redis, improving efficiency.
- Participated in on-call rotations, resolving engineering issues promptly to enhance user support.

Education

International University of Applied Science, Germany — Bachelor of Science: **Computer Science**