AMOS EHIGUESE

SOFTWARE DEVELOPER

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I am a pragmatic end-to-end developer of complex, cloud-native, software solutions in an environment of Back-End Engineering. My interdisciplinary skill set reaches from software development to Dev-Ops to AI. I am currently helping to shape the future of self health-care services by building an AI based symptom checker that helps users experiencing symptoms, to understand potential health issues and ways to mitigate before consulting a healthcare professional.

Experience

ASAP **May 2024 - Present**
Software Developer Nigeria

- Building an AI-Powered Symptom Checker to helper users get quick feedback on their health
- Designing a sophisticated Back-End layer for seemless processing of requests.
- Integrating Google's Gemini model, to analyze user-generated data against a comprehensive medical knowledge base.
- Engineering a streamlined continuous integration and delivery pipeline for continuous feature updates to improve development time by 50%
- Developing the Front-End using React for a responsive and intuitive user interface.

Showers Group **October 2023 - January 2024**
Computer Science Instructor Nigeria

- Guided and advised students to help them successfully sit for their examinations.
- Organized interactive sessions with students to offer hands-on experiences, enhancing their understanding and retention of the material.

Unversity Gate Academy **March 2022 - Feb 2023**
Computer Science Teacher Nigeria

- Pioneered their first computer science club where students were exposed to different computer science fields and had a hands-on session interacting with a basic react application

Projects

Subdomain Enumeration Tool

It is a cloud-first microservices tool designed to help you discover all the subdomains associated with a specific domain.

- The system consists of six microservices implemented in Go, Rust, TypeScript, Python, and Java, orchestrated using Kubernetes and managed with Helm for streamlined deployment and scaling.
- It utilizes Google's Protocol Buffers and gRPC for efficient serialization and communication between services, enhanced with OpenTelemetry for robust observability and tracing capabilities.
- Google's Gemini model is used to generate subdomains based on sematic understanding of target domain.
- Continuous integration and delivery pipelines are automated with GitHub Actions, ensuring rigorous testing and seamless deployment using Docker containers.

Education

Bachelor of Science, Physics Sept. 2013 - Nov. 2017
University Of Port Harcourt, Nigeria 4.02/5.00

Skill

- Protocol Buffers and gRPC
- Bash, Git
- Web development (React, HTML5, CSS3)
- PostgreSQL, MySQL, MongoDB
- DevOps: Github Actions
- AWS, GCP, Linux
- Docker, Kubernetes, Helm, Skaffold
- Go, Python, Rust, Java, Typescript, and Javascript