PRINCE ONUKWILI

Full stack, DevOps Software engineer | Cloud engineer

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CAREER SUMMARY:

I am a software engineer with extensive years of experience, specializing in both frontend and backend development. My technical expertise includes **React.js, Next.js,** and **TypeScript** for frontend development, coupled with **Node.js, Express.js,** and **C#.NET** for backend services. I excel at creating progressive web apps using Service workers and implementing features like client-side caching, and web-notifications.

In addition to development, I have a robust background in DevOps and cloud infrastructure, particularly with **Google Cloud Platform (GCP)**. I specialize in containerization using **Docker**, orchestration with **Kubernetes**, and infrastructure automation with **Terraform**. My experience extends to setting up and managing CI/CD pipelines using **GitHub Actions**, allowing for automated deployment processes. I also track and monitor application metrics leveraging **Prometheus**, and **Grafana**.

WHY WORK WITH ME

- A key achievement in my previous role was successfully managing and educating my teammates on **React.js** and **JavaScript**, where I tutored them on building SPAs, the concept of React hooks, and creating web apps using these technologies. My ability to impart knowledge and mentor junior developers significantly contributed to our team's productivity and code quality.

- One of my notable projects is the GO.Charity platform, where I architected a microservices-based system deployed on a **Google Kubernetes Engine (GKE)** Cluster. This involved deploying each microservice on Pods within the Cluster, implementing monitoring with **Prometheus** and **Grafana**, and managing infrastructure as code (IaC) with **Terraform**. <u>VIEW HERE</u>

- Additionally, I have actively engaged in educating the tech community. I successfully educated an audience of **over 100 people** on cloud computing, particularly **Infrastructure as a Service (IaaS) using Google Compute Engine**, explaining the concept of IaaS and demonstrating how to create a VM on GCP. I also conducted virtual sessions at my local community, GDG, where I educated audiences on project management using the Agile model and led hands-on workshops on the Scrum framework using **Jira**.

- Furthermore, I developed an online auction platform that leverages the power of serverless computing on GCP. The application was built as a progressive web app (PWA), featuring offline support, client-side caching, and web notifications. I implemented a CI/CD pipeline that deploys the Dockerized app to **Google Cloud Run.** <u>VIEW HERE</u>

I am committed to continuous learning, and capable of easily adapting to any environment and the technologies used within the team

WORK EXPERIENCE:

Full stack developer - React Js, Next Js, Node Js, C#.NET, Microsoft SQL

<u>Momas LTD Nigeria</u> | 16 July, 2022 - 31 July, 2023

- **I streamlined application development by 20%** in my previous role through GOPack, a product I developed. It simplifies bundling projects into static files using pre-configured webpack, curbing plagiarism and expediting production-ready setups.
- **Boosted customer turnout by 15%** in my previous organization through a payment web app enabling easy energy/power payments using technologies like PayStack, Remita, and React Js.
- Created a real-time global personnel tracking software using MQTT, React Js, Node Js, and Google Maps, **yielding approximately 10% revenue increase for the organization**.

SKILLS

HTML 5 | CSS 3 | JavaScript (ES5, ES6, ES8) | React.JS | Next.Js | Typescript | Redux | Service workers | Git | GitHub | SCSS | Three Js | React three fiber | 3D web development | Third-party API integration | Web development | Cypress & Jest (TDD) | Agile | DevOps | App monitoring
OTHER TECHNOLOGIES
C# | .NET | Docker | Node.Js | Express.Js | Python | Flask | MongoDB | Linux & Bash | Google Cloud | Prometheus | Grafana | Swagger UI
TOOLS I USE
Git | GitHub | Confluence | Slack | Trello | Figma | Canva | ZenHub | Jira | Kubernetes | GitHub Actions | Docker

RELEVANT PROJECTS:

<u>GO.Charity (Deployment on Google Kubernetes Engine)</u>
Full stack developer & founder

- I developed a dedicated charity crowd-funding platform architected with a microservices approach, each service running in its own **Docker** container and deployed on a **Google Kubernetes Engine (GKE)** Cluster.
- I streamlined the operations by setting up a robust CI/CD pipeline with **GitHub Actions**, monitoring the infrastructure with **Prometheus** and **Grafana**, and managing the entire deployment through **Terraform** for efficient infrastructure as code (IaC).
<u>VIEW YOUTUBE CASE STUDY</u>
<u>VIEW LIVE PLATFORM</u>

RELEVANT PROJECTS (CONT'D):

GO.Charity (Monitoring Dashboard)
Full stack developer | DevOps engineer

- Used '**prom-client**' and '**swagger-stats**' to expose the metrics of the GO.Charity auth app e.g. The total no. of HTTP requests made to the application, the HTTP response time for each request, average memory being used by the app, etc.
- Set up **Prometheus** and **Grafana** to scrape and visualize said metrics at regular time intervals.

VIEW CASE STUDY

ONLINE AUCTION (Auctioning website)
Full stack developer & founder

- Crafted an **online auction platform** using **Next Js** enabling users to list, bid, and **receive email notifications** for expiring products and highest bids.
- Implemented a **CI/CD** workflow which deploys the app container to **Google Cloud Run** serverless platform..
- Made the web app a **progressive web app** which can not only be installed on a user's device, but also supports **caching of client-side resources, Web notifications** (when a user gets out-bid) e.g. pages, images, etc and **offline support**.

VIEW CASE STUDY

NIGTRAK
Frontend developer

- Utilized tools like **MQTT**, **React Js, Typescript**, **Google maps** etc. to develop a **real-time tracking software and inventory system**, which tracks registered personnel and their assigned gadgets around the world in real-time via the application installed on their device.

(N.B: THIS IS THE DEMO APP INTERFACE DUE TO THIS BEING A PRIVATE PROJECT! SIGN IN WITH RANDOM CREDENTIALS)

VIEW CASE STUDY

EDUCATION:

High school certificate (SSCE)
Federal science and technical college, Yaba

📅 SEP 2018 - SEP 2021

📍 Yaba, Lagos state. Nigeria

Certificate of completion
Aitech computer school

📅 OCT 2021 - APRIL 2022

📍 Lagos state. Nigeria

CERTIFICATIONS:

GCP - Google Kubernetes Engine
  URL https://www.credly.com/badges/108203dd-c8b3-41e3-9ce5-edb9aff4b17c/linked_in_profile

Terraform
  URL https://bit.ly/terraform-certification

GCP - Compute Engine
  URL https://www.credly.com/badges/ed36f898-be0b-439a-851b-c4a256d54e0e/linked_in_profile

React.Js development
  URL https://bit.ly/3HgG6MD

React, NodeJS, Express & MongoDB - MERN
  URL https://bit.ly/3n2Fgwc

DevOps engineering and concepts
  URL https://bit.ly/41aqtiD

Cloud Computing
  URL https://bit.ly/3QE08Gw

Agile project management
  URL https://bit.ly/3P7lE4b

Docker and Kubernetes certification
  URL https://bit.ly/3PlNjyI

Linux and Bash scripting certification
  URL https://bit.ly/45ZCSHB