PRINCE ONUKWILI

Full stack, DevOps Software engineer | Cloud engineer

(+234) 9168572271/(+234) 8156061188   https://prince-onuk.vercel.app   https://www.linkedin.com/in/prince-onukwili-a82143233

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

- I co-engineered Socio Africa, a social platform that scaled to over **4,000+** active users within months. Serving as the **lead backend engineer**, I designed the server-side infrastructure and introduced efficient DevOps practices, ensuring secure and rapid growth.

- As the team lead for the Heart Bridge project, **I led a team of three**, including a product designer, to build a robust crowdfunding platform. We implemented **Paystack payment integration**, allowing seamless donations to orphanage projects, real-time notifications leveraging **Appwrite** and interactive features like location-based search using the **Google maps Places API**.

- 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, leveraging **Next Js, Node/Express Js, TypeScript, MongoDB** and **Cloudinary**. This involved deploying each microservice on Pods within the Cluster, implementing monitoring with **Prometheus** and **Grafana**, and managing infrastructure as code (IaC) with **Terraform**.

- 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**.

WORK EXPERIENCE:

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

Momas LTD Nigeria | 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**.

Lead backend developer (freelance) - Node Js, Express Js, Typescript, MongoDB, Cloudinary

Socio Africa (Startup) | 20 July, 2024 - Present

- Co-engineered Socio Africa, an African-led social media platform, as one of its founding software engineers which scaled to over 4,000+ active users within months
- Developed the server-side application using Node.js, Express.js, TypeScript, and MongoDB for robust API endpoints and databases
- Created algorithms for users to create, edit, comment, and react to posts, facilitating interactive community engagement.
- Enhanced query performance through database indexing, reducing latency and improving user experience.

RELEVANT PROJECTS:

Heart Bridge
Team lead, full stack developer & co-founder

- Led a team of three, including a product designer, to build a platform connecting orphanages with donors.
- Integrated **Paystack payment processing**, allowing donors to contribute seamlessly to orphanage projects.
- Integrated **Google Maps API** for location-based search, enabling users to locate nearby orphanages.
- Developed secure login and authentication flows using **Appwrite** for a secure and user-friendly experience.
- Created **real-time notifications with Appwrite**, keeping users informed on donation updates and orphanage needs.

VIEW LIVE PLATFORM

RELEVANT PROJECTS (CONT'D):

Socio Africa (An african-based social media platform)
Lead backend engineer

- Co-engineered an African-led social media platform. As the lead backend engineer, I built and scaled the server-side infrastructure using **Node.js**, **Express.js**, and **TypeScript**.
- Utilized **Cloudinary** and **MongoDB** for storing and managing images and data from user profiles, communities, and posts.
- Implemented secure user authentication with access and refresh tokens.
- Created algorithms and endpoints for users to create, edit, comment, and react to posts.
- Optimized performance with a pagination algorithm for loading posts and communities efficiently.
- Improved database operations with indexing, reducing query times and latency.

VIEW CASE STUDY

GO.Charity
Full stack developer & founder

- I developed a charity crowd-funding platform architected using **Next Js, Typescript, Node** and **Express Js** 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).

VIEW LIVE PLATFORM

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 (Inventory and real-time tracking platform)
Lead frontend developer

- Developed a real-time tracking and inventory application meant to track registered personnel and their assigned gadgets wherever they are, via their device.
- Implemented **Google Maps third-party APIs** for displaying online devices on the map.
- Utilized **MQTT** communication protocol for real-time communication with each device.
- Used **React Js** for the application interface development and **Typescript** for a better application development process and ensure a bug-free software

VIEW CASE STUDY

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

EDUCATION:

Aitech computer school
OCT 2021 - APRIL 2022
Lagos state. Nigeria

Nnamdi Azikiwe University - B.Sc
SOFTWARE ENGINEERING
OCT 2023 - OCT 2027
Awka, Anambra state, Nigeria

Federal science and technical college, Yaba
SEP 2018 - SEP 2021
Yaba, 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

Cloud Computing
URL https://bit.ly/3QF08Gw

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

Agile project management
URL https://bit.ly/3P7IE4b

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

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

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

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

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