

Samson Kwaku Nkrumah

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Punjab-India

PROFESSIONAL SUMMARY

I am a results-driven software developer with a strong background in full-stack development and a passion for creating robust and efficient applications. Proficient in multiple programming languages and frameworks, I excel in web and mobile development. My ability to translate complex requirements into scalable and user-friendly solutions has been proven through successful project deliveries. I possess strong problem-solving skills and a dedicated approach to staying up-to-date with emerging technologies. With excellent communication and collaboration abilities, I consistently deliver high-quality code within deadlines and budgets. Committed to continuous learning, I contribute to project success through innovative and efficient software development practices.

EDUCATION

Lovely Professional University

Punjab, India.

B. Tech Computer Science and Engineering

TECHNICAL SKILLS

Languages: C, C++, Python, Java, Dart, Golang, Kotlin, Javascript, and Typescript.

Framework/Libraries: React, Flutter, Express Js, Django, Flask, Nest Js, Next Js, Angular Js, Electron Js, etc.

Data: MySQL, Postgres, MongoDB, Sqlite, Cassandra and Dynamo DB.

Tools: Git, Github, GCP, AWS, Trello, Slack, Discord, Jira, Confluence, Jenkins, Linux Server Administration, Data-Dog, RabbitMQ, Kafka, Docker, Kubernetes, WebRTC, RMTMP, XMPP, ELK, Grafana, Prometheus, Nginx, Apache, HAProxy, Cypress, Jest, Jmeter, etc.

EXPERIENCE

Reprezentme Ltd

Abuja, Nigeria

Software Architect(Fulltime)

September 2022 - Present

- Successfully integrated work methods and align organizational goals with the corporate mission, resulting in significant business growth.
- Implemented company-level protocols for the platform, architecture, and data configuration, resulting in improved efficiency and data security.
- Developed and deployed an end-to-end encryption solution for group messaging, improving the confidentiality of communication for the organization.
- Created and launched a polling and chat-based mobile app (<https://www.reprezentme.com>), which is available on the Play Store and Appstore and has received positive user feedback.
- **Technologies:** Nodejs, Nestjs, Javascript, Typescript, GraphQL, Socket.io, Flask, MongoDB, PostgreSQL, RabbitMQ, AWS(EKS, S3, Cloudfront, Route53, Cloudwatch etc), React Js, Dart, Flutter, Nextjs, Kubeshark, Redis, etc.

Software Engineer(Freelancer)

September 2021 - March 2022

- Designed and architected the whole product ground up following best DDD practices.
- Built the entire microservices for the application in nestjs, with REST, GraphQL, OpenAPI, Lambda and RabbitMQ.
- Provisioned and deployed the whole application in EKS utilizing Terraform.
- Set up the CI/CD environment utilising Github Action and ArgoCD.
- Also, built the entire administrators panel in React and about 60% of the mobile app in Flutter.
- Wrote clean, straightforward, and well-tested code following TDD.
- **Technologies:** Nodejs, Nestjs, Javascript, Typescript, GraphQL, Socket.io, Flask, MongoDB, PostgreSQL, RabbitMQ, AWS(EKS, S3, Cloudfront, Route53, Cloudwatch etc), React Js, Dart, Flutter, Nextjs, Kubeshark, Redis, etc.

Fairwords Inc.

Longmont, CO, USA

Senior Software Engineer(contract)

April 2022 - August 2022

- Assisted in maintaining and updating legacy systems written in .NET, ensuring their stability and reliability.
- Contributed to the development process by creating change documentation, participating in code reviews, and conducting integration and testing.
- Collaborated with the Guide team to develop an MVP of their Guide Client product, which is built using electron js.
- Worked on the Guide App, a web app used by companies to manage their employees, written in Angular Js with Apollo Client. Improved user experience and functionality through regular updates and enhancements.
- Developed reliable, reusable code that can be deployed in dispersed cloud environments, improving the organization's ability to scale and adapt to changing needs.
- Partnered with the DevOps team to explore and implement innovative solutions, including the use of the MongoDB Kafka Connector and Kafka on the confluent cloud, to improve system performance and reliability.
- **Technologies:** Nodejs, Javascript, Typescript, Nestjs, GraphQL, Angular, Electron Js, MongoDB, Kafka, RxJs, AWS, etc.

Xearth Pvt.

Abidjan, Ivory Coast

Chief Technology Officer/Software Engineer

June 2020 - September 2021

- Contributed to the development of customer-centric applications, prioritizing user experience and satisfaction.
- Managed the infrastructure of all software products in EKS, ensuring smooth operation and availability.
- Implemented company-level protocols for the platform, architecture, and data configuration, resulting in improved efficiency and data security.
- Rewrote most of the services or applications to utilize the benefits of serverless technology, resulting in cost savings for customers and improved efficiency for the organization.
- Proposed and led the rearchitect of some existing systems to follow the enterprise-grade clean architecture and best practices, improving system performance and maintainability.
- **Technologies:** Nodejs, Javascript, Typescript, Nestjs, Express Js, Flutter, Dart, Python, React Native, GraphQL, Angular, Electron Js, MongoDB, Kafka, RxJs, AWS, GCP, React Js, Nextjs, PostgreSQL, Flask, etc

Asqii Llc

Kumasi, Ghana

Software Engineer

September 2016 - July 2019

- I worked on a school management system in three African nations. (<https://schooldesk.cc>).
- Designed and built the notification system (mimir) that powers the entire application, improving communication and efficiency, using Flask, Kafka and other third-party services.
- Designed and developed reliable solutions to fulfil customer needs for functionality, scalability, and performance in collaboration with the software development and testing team.
- Worked on Electron React-based desktop application for use by the schools of the system.
- **Technologies:** Nodejs, Express Js, Python, Flask, Django, React, Electron Js, React Native, Postgresql, GCP, Javascript, Typescript, Docker, Cloud Run, etc.

PROJECTS**PP-Stream**

September 2022

Live Stream Application

- Built this live streaming application during a 24-hour hackathon, which supported many different formats mp4, vimeo, etc. It also had a feature for replaying and pausing.
- It was built using an event-driven microservice architecture, with WebRTC and Socket. The technologies used include node js, nestjs, mongodb, webrtc, rabbitmq, flutter, dart, react js, socketio, etc.

Fnf-express

March 2021

An NPM Package

- This package helps speed up the development of nodejs applications written in express js, with inspiration from nestjs CLI.
- It follows the MVC Architecture to create a server easily using CLI.

Boanergests

September 2022

Admin Panel Template with CRA and Typescript

- Created a create react app (CRA) admin template in typescript with redux, redux-toolkit, etc. Which can be bootstrapped with just a single command, `npx create-react-app any_name —template boanergests`.

ACHIEVEMENTS

- I had contributions to my open-source project, which was featured in Digital Oceans Hacktoberfest. It had more than 5,000 contributions.
- Selected by MongoDB, to talk about how I have used MongoDB in my Startup.

INTEREST

Swimming, public speaking, basketball, music, software architecture discussions, and problem-solving.