

Samson Kwaku Nkrumah

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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

Kwame Nkrumah University of Science and Technology Computer Engineering	Kumasi, Ghana.
Lovely Professional University <i>B. Tech Computer Science and Engineering</i>	Punjab, India.

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

EXPERIENCE

Webrtc Ventures <i>Software Engineer(Fulltime)</i>	Charlottesville, VA, USA. April 2023 - Present
<ul style="list-style-type: none">Developed a custom live video recording solution using Amazon Chime SDK, achieving instant video availability post-recording through innovative stream processing and storage techniques.Automated QA testing by creating a script with Loadero for efficient multiple user profile generation, enhancing testing productivity.Enhanced an internal project integrating AWS services, adding features and fixing bugs in a system utilizing Amazon Chime SDK, Amplify, Cognito, and other AWS technologies.Implemented real-time transcription and analytics in surgical settings, using Symbl AI for insight generation and creating a dashboard for operational monitoring.Played a dual role in development and support on a Vonage-based client project, contributing to bug fixes, feature additions, and architecture decisions for improved scalability and visibility.Technologies: Nodejs, express Js, Nest js, Flask, React Js, Typescript, Nextjs, MongoDB, Postgresql, DynamoDB, MongoDB, Antd, Material UI, AWS, lambda, Serverless headless CMS, Docker, ECS, EKS, GraphQL, Redis, Chime, Symbl ai, Vonage, AWS(ECS, amplify, chime, cognito, x-ray, RDS, Cloudwatch, etc), Janus, SIP,	
Reprezentme Ltd <i>Software Engineer(Fulltime)</i>	Abuja, Nigeria September 2021 - March 2023
<ul style="list-style-type: none">Successfully integrated work methods and aligned organisational 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 organisation.	

- Created and launched a polling and chat-based mobile app, which is available on the Play Store and Appstore and has received positive user feedback.
- **Technologies:** Nodejs, Nestjs, Javascript, Lambda, 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 organisation'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, Lambda, Nestjs, GraphQL, Angular, Electron Js, MongoDB, Kafka, RxJs, AWS, etc.

Xearth Pvt.

Abidjan, Ivory Coast

CTO(Software Engineer)

June 2020 - Present

- Contributed to the development of customer-centric applications, prioritising 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 utilise the benefits of serverless technology, resulting in cost savings for customers and improved efficiency for the organisation.
- Proposed and led the re-architect 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, Lambda, 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, Lambda, 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.

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`.

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.

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.
- Mentor at Google Developer Group Punjab.

CERTIFICATION AND PUBLICATIONS

- Certified AWS Cloud Practitioner.
- Certified AWS Solutions Architect Associate Level.

INTEREST

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