

# JOSHUA R. AKANGAH

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## EDUCATION

University of Ghana

BSc. Computer Science

August 2018 – August 2022

Legon, Ghana

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Golang

**Developer Tools:** VSCode, Windows, Linux, MacOS

**Technologies/Frameworks:** GitHub Actions, ReactJS, NextJS, NodeJS, ExpressJS, Git, MongoDB, MariaDB, React Native, TailwindCSS, Flask, Django, FastAPI, Gin, SQL, Redis, REST, GraphQL, Jest, Arduino, PyGame, Docker, Expo, Google Cloud Platform, AWS, gRPC

## EXPERIENCE

PurpleWave Auction [🔗](#)

Jan 2024 – Present

Full Stack Software Engineer

Remote

- Engineered custom software libraries integrating in-house Cliquidator CRM with Intacct accounting platform, automating month-end processes and significantly reducing completion time by several hours, saving countless labour hours monthly.
- Successfully upgraded multiple critical services and workers to the latest Node.js LTS version, including extensive refactoring, improved documentation, and implementing comprehensive unit tests with **95%+ coverage**, which led to enhanced system stability, the resolution of potential vulnerabilities, and ensured long-term maintainability.

Insurerity Digital [🔗](#)

Oct 2020 – Dec 2023

Frontend Engineer — Team Lead

Remote

- Spearheaded the redesign and migration of a complex B2B dashboard to **Next.js**, resulting in a **30%** increase in user efficiency and a **75%** reduction in page load times, while improving codebase maintainability.
- Architected and deployed a high-performance company website, driving a **70%** increase in client engagement and a **50%** boost in lead generation, as verified by Google Analytics, resulting in a significant influx of new clients and investor interest.
- Engineered a full-stack payroll automation suite, reducing processing times by **55%** and eliminating paper-based workflows, resulting in **99.9%** accuracy and compliance with local tax regulations for a workforce of 100+ employees.
- Developed a custom **ReactJS** component library of 20+ reusable UI elements, reducing code duplication significantly and improving code consistency across 2 major projects, resulting in **hundreds of hours** of saved development time.
- Architected and implemented a high-performance event logging microservice, increasing error detection rate by **65%** and reducing mean time to resolution (MTTR) from 5+ hours to just under 1 hour. The system was capable of processing up to **1,000 events per second** from multiple frontend client connections.

ELiTE Education [🔗](#)

Jul 2020 – Oct 2020

Software Engineer Intern

Remote

- Developed and implemented frontend components for a comprehensive educational management system, leveraging **React.js** to automate several student and academic administration processes, resulting in a significant increase in administrative efficiency.

IGNIS Technologies [🔗](#)

Feb 2020 – Jul 2020

Software Engineer Intern

Remote/Spintex, Accra

- Developed a full-stack application to digitize the University of Ghana's shuttle system, implementing a cashless payment solution. Utilized Python and Flask to create a scalable platform capable of processing hundreds of daily transactions.
- Integrated a payments API to completely eliminate cash transactions, aimed at improving the campus shuttle experience.

## PROJECTS

- Purple** [🔗](#) | A feature-rich budget & finance tracker mobile app
- Bolt React Native** [🔗](#) | Built a clone of the Bolt Food mobile app in React Native & TailwindCSS
- Gorth** [🔗](#) | An interpreted programming language based on a stack machine model
- Biometric Attendance** [🔗](#) | An embedded system to utilize biometrics in recording student attendance