

Johnmicheal Elijah

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EDUCATION

Covenant University

Nigeria

Bachelor of Engineering in Information and Communication Engineering

EXPERIENCE

Greynote Limited

Sept 2022 — Present

Lead Software Engineer

Lagos, Nigeria

- Led the product and engineering team in designing and developing the company's software for Parents, Students and Schools, resulting in improved user engagement and satisfaction
- Implemented features like in-app notification system, real-time chat, financial management, PDF generation, importing data with csv files, file upload and download, multi-account support.
- Redesigned the MVP to create a more responsive interface of the products, restructured the architecture into a progressive web application (PWA) which led to improved SEO rankings and overall user experience.
- Integrated Artificial Intelligence by fine-tuning a language model to create Greynote AI, a teaching assistant that assists teachers and admins in generating lesson notes and class assessments. Additionally, I developed an algorithm for video content delivery, profile ranking, content ranking, and user preferences.
- Developed a robust backend architecture using Node.js and GraphQL, a scalable email server using AWS SES, and an efficient database mapping system using Mikro-ORM and PostgreSQL, enhancing system performance and reliability

ScanTech Oil & Gas Limited, Nigeria

Apr 2022 — Sept 2022

Software Engineering Intern

Lagos, Nigeria

- Configured and managed the virtual private server from AWS Lightsail using tools like PM2, Nginx, NMAP
- Worked jointly with the engineering team to build an online employee onboarding platform using TypeScript, Next.js, GraphQL, Node.js, Express, and PostgreSQL, to reduce the onboarding time by 50% and increased overall efficiency by 25%.

PROJECTS

Lecture Mate | *TypeScript, Next.js, Supabase, Figma*

- Collaborated with a developer to develop an AI powered Examination Preparation Tool for Students
- Crafted the web application designs using Figma and implementing features like PDF file upload, user authentication, LLM chat sessions using Next.js with TypeScript
- Restructured the backend from a Linux private server and Pinecone DB to a serverless monolithic architecture using Supabase and Vercel

The ZCAMP Network | *TypeScript, Next.js, Web Sockets, GraphQL, PostgreSQL*

- Worked in a team of 2 on the development of a forum system for university students with subgroups.
- Interface was developed using Next.js, TypeScript, and GraphQL, incorporating advanced features such as comment threads and moderation similar to Reddit.
- Added a messaging web application utilizing web sockets with socket.io to enable real-time communication between users.

TECHNICAL SKILLS

Languages: Typescript, Javascript, Python, C++, Java, HTML, CSS

Tools: Next.js, React.js, Node.js, GraphQL, Git, Docker, Linux, AWS, MySQL, MongoDB, PostgreSQL, TailwindCSS

ACTIVITIES

3Line Hackathon | *TypeScript, Next.js, Figma, Python*

- Leading a team of 3 to create a fintech solution using Artificial Intelligence for payment processing, finishing in 3rd place
- Compiled and crafted the presentation slides and talk points for the hackathon
- Built the fintech web application dashboard using Next.js, TypeScript, and consuming REST API using Axios, showcasing features such as financial data visualization, audio AI chat, loan rankings, and social banking functionality.