

# Ngwu Stephen

## Software Engineer

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*Software Developer with 3+ years of experience delivering quality software to high-value clients. Proven track record in developing high-quality software projects on time and within budget, debugging and troubleshooting software issues, and driving profitability. Passionate about staying up-to-date with the latest technologies and leveraging them to create innovative solutions.*

### OBJECTIVE

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To secure a challenging position as a software developer in a dynamic organization where I can utilize my technical skills and creativity to develop innovative software solutions. I aim to enhance my expertise in programming, and software development methodologies while contributing to the organization's growth.

### PROFESSIONAL EXPERIENCE

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#### WHATIDO

Full Stack Developer

Avondale, AZ, USA

March 2022–June, 2023

- Integrated an Ethereum payment system with ethers, hardhat, and smart contracts. Researched and developed the smart contract using Solidity programming language, tested and deployed on the Ethereum blockchain network using Alchemy node service. Increased the efficiency of the payment process and reduced transaction costs by eliminating the need for intermediaries such as banks or payment processors. Facilitated the processing of more than 200 transactions, securely and transparently.
- Implemented a transaction feature by conducting user research, collaborating with the development team, and testing for usability and functionality, increasing user engagement and satisfaction, resulting in a 15% increase in user retention and a 10% increase in overall app usage.
- Implemented front-end authentication using Next, Redux, and JSON Web Tokens (JWT), including email verification, password reset, and social login via Google and Facebook APIs. Collaborated with the backend development team to ensure smooth integration and functionality of the authentication system. Overcame challenges such as integrating with an existing backend API and improving the user experience by allowing users to access personalized content based on their authentication status. Increased user engagement by 20% and received positive feedback regarding the ease of use and security of the authentication system.
- Developed and implemented app notification and push notification functionality, increasing user engagement by 25% through targeted push notifications. Utilized web push API in the backend and service worker in the front end to create personalized push campaigns based on user preferences.
- Implemented search functionality across the web application, improving user experience by enabling users to easily find experts, resulting in a 25% increase in user engagement and a 15% increase in conversions. Collaborated with the backend team to integrate search functionality with the backend database, utilized frontend frameworks such as Next, and conducted user testing and analysis to ensure optimal search results and performance.
- Integrated the explore page and implemented google maps using Google Cloud and Google Map API. The map can be viewed in map, satellite, and street modes. Users are able to know available experts in their country. Increased user engagement and experience by 15%.

## UNIVERSITY OF NIGERIA ICT CENTER,

Full Stack Developer

Enugu, NG

March 2021-Feb 2022

- Developed and maintained full-stack web applications using cutting-edge technologies such as JavaScript, TypeScript, React, Node.js, and MongoDB.
- Collaborated closely with cross-functional teams including product managers, designers, and QA engineers to deliver high-quality software solutions.
- Designed and optimized database schemas, wrote efficient MongoDB queries and ensured data integrity and performance.
- Designed and implemented RESTful APIs to facilitate seamless communication between the front-end and back-end systems.
- Integrated third-party services and APIs, such as Stripe for payment processing and Mapbox for real-time location updates.
- Optimized application performance by conducting thorough code reviews, identifying bottlenecks, and implementing performance-enhancing techniques.
- Utilized Git for version control and collaborated with team members using Agile methodologies.
- Actively participated in code reviews, providing constructive feedback and ensuring adherence to coding standards and best practices.

## EDUCATION

### UNIVERSITY OF NIGERIA, NSUKKA

Bachelor of Science in Computer Science and Mathematics

Enugu, NG

2017-2021

## PROJECTS

### TOURISM WEB APP

June 2020-August 2020

- Developed a comprehensive tourism website aimed at promoting travel destinations and facilitating bookings.
- Developed the front end using HTML5, CSS3, JavaScript, and React ensuring a visually appealing and responsive user interface.
- Implemented a user-friendly search functionality using React and Redux, allowing visitors to easily find destinations, attractions, and accommodations.
- Integrated Google Maps API to provide interactive maps, enabling users to explore and navigate travel destinations.
- Developed RESTful APIs using Node.js and Express.js to handle user registration, login, and booking functionalities.
- Utilized MongoDB for database management, implementing data models and schemas to store and retrieve information related to destinations, attractions, and bookings.
- Integrated a payment gateway system using Stripe, enabling secure and convenient online transactions.
- Implemented user authentication and authorization systems using industry-standard protocols like JSON Web Tokens (JWT).

### Key Achievements:

- Implemented a dynamic itinerary builder feature, allowing users to customize and plan their travel itineraries, resulting in a 20% increase in user engagement.
- Integrated a user review and rating system, fostering user-generated content and enhancing the credibility of featured destinations and accommodations.

- Developed [keccakinsta](#) for posting and pinning pictures.
- Utilized Redux for state management, ensuring efficient data flow and seamless interaction between components.
- Implemented features such as creating boards, saving, organizing, and categorizing pins.
- Utilized Sanity.io as the database to store and manage user profiles, pins, and boards.
- Implemented a user-friendly search functionality using React and Redux, allowing visitors to easily find individual pins and categories of pins.
- Implemented a comment functionality, allowing visitors to write some comments on pins.
- Implemented authentication using Google Auth API. Collaborated with the backend development team to ensure smooth integration and functionality of the authentication system. Improved the user experience by allowing users to access personalized content based on their authentication status. Increased user engagement by 20% and received positive feedback regarding the ease of use and security of the authentication system.

## **SKILLS**

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- **Technical Skills:** JavaScript, Typescript, Python, Solidity, HTML, CSS, React, Redux, Next JS, Node JS, Express, Firebase, MongoDB, Atlas, Firestore, Git/Github, Linux, Google Cloud, Mapbox, Heroku.
- **Soft Skills:** Creativity, Effective Communication, Problem-Solving, Teamwork, and Organizational.

## **ACTIVITIES**

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- Participated in Polygon Africa Bootcamp, receiving lectures on building secure and scalable blockchain applications in 2022.
- Participated in TxE Africa Tech Summit in 2022 where I received lectures about technology and made connections with my fellow software developers.