

# EMMANUEL O. OKOH

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## TECHNICAL SKILLS:

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**Languages:** Python, PHP, C++, HTML/CSS, JavaScript, Dart, Typescript, C#, Java, Kotlin, Nodejs

**Frameworks:** Laravel, Futtter, Flask, Reactjs, Vue JS, Express

**Database:** MySql, SQL, sqflite, SQLite, PostgreSQL, MongoDB, Firebase Firestore, DynamoDB

**Concepts:** Design Implementation, Clean Architecture, and Test-Driven Development

**Mobile DevOps:** Codemagic, Bitrise, GitHub/bitbucket Actions, Fastlane, Docker

**Cloud:** AWS (Amplify, S3, DynamoDB, SNS etc)

**Push notification:** (Firebase, SNS)

**Version Control:** Git (GitHub, bitbucket) etc.

**CI-CD:** Codemagic, AWS CodeBuild, CircleCI

**Tools:** Android Studio, XCode, VSCode, Git, Figma, XD

**Other:** Data Structures and Algorithms, RESTful API, GraphQL Integration, S3 Bucket, Cloudinary,

## Experience:

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### FREELANCING

**April, 2023 - Present**

*Fullstack & Mobile App Developer - Remote*

*Port Harcourt, Nigeria*

- Provided end-to-end software development solutions with a focus on mobile app development using Flutter, Kotlin, and Swift.
- Successfully designed and launched mobile and web applications, leading to a 70% increase in user retention within the first 6 months.
- Developed scalable, secure, and high-performance applications tailored to client needs.
- Integrated real-time push notifications and video/audio functionalities using Firebase, Agora, and WebRTC, resulting in a 70% increase in user engagement.
- Led the development of a mobile app with offline-first capabilities, reducing user churn by 30% for users in low-connectivity areas.
- Consumed RESTful APIs and GraphQL for seamless backend integration and data management.
- Leveraged AWS services (S3 Bucket, Amplify) for cloud storage, hosting, and deployment, resulting in 25% faster app deployment.
- Implemented state management solutions using Provider, Riverpod, Redux, and BLoC for smooth and maintainable mobile and web applications.
- Developed robust database integration with SQLite, MongoDB, and Firebase Firestore, providing real-time updates with offline-first capabilities.
- Collaborated with cross-functional teams to ensure seamless integration and successful project execution
- Delivered 5+ high-quality, responsive software projects on time, boosting client retention by 40%.

- Built secure applications adhering to best practices in authentication (OAuth, JWT) and encryption, ensuring zero security breaches across multiple platforms.
- Provided responsive technical support, ensuring long-term client satisfaction and retention.
- Utilized modern technologies such as React.js, Vue.js, Node.js, and cloud platforms to ensure efficient project delivery.

## **DAFESOFTWARE LIMITED**

*Mobile & Frontend Developer (Flutter, Kotlin, Java, Swift, Reactjs and VueJs)*

**Jan, 2021 - March, 2023**

*Port Harcourt, Nigeria*

- Specialized in mobile and frontend development using React.js, Vue.js, Flutter, and Kotlin.
- Built dynamic, responsive, and user-centric interfaces for mobile and web platforms, enhancing user experience.
- Developed and maintained cross-platform mobile applications that delivered seamless performance across multiple devices.
- Integrated push notifications and real-time updates, driving a 40% increase in user interaction with in-app features.
- Consumed RESTful APIs to integrate mobile applications with backend services, ensuring smooth data flow and interaction.
- Leveraged AWS services for cloud integration, storage, and deployment, resulting in a 20% reduction in deployment times and improved system reliability.
- Collaborated closely with designers and backend teams to ensure seamless integration and optimize application performance.
- Implemented state management solutions (Redux, Bloc, riverpod, GetX, Provider etc) to improve application scalability and maintainability, which contributed to a 25% improvement in load times.
- Developed and deployed cross-platform mobile applications with over 10,000 download, leading to a 15% increase in active users within 6 months post-launch.

## **DAFESOFTWARE LIMITED**

*Backend Developer (Laravel and Nodejs)*

**August, 2019 - December, 2020**

*Port Harcourt, Nigeria*

- Designed, developed, and maintained robust server-side logic for scalable web applications.
- Collaborated with frontend developers, UI/UX designers, and project managers to ensure seamless backend integration with user-facing applications.
- Implemented secure, efficient, and high-performing RESTful APIs and microservices, powering dynamic frontend experiences.
- Integrated third-party APIs and external systems to extend application functionality and enhance user experience.
- Managed relational and non-relational databases, optimizing queries and ensuring data consistency, security, and scalability.

- Ensured code quality and maintainability through test-driven development (TDD), automated testing, and comprehensive code reviews.
- Contributed to development workflows improvement by mentoring 5+ junior developers, leading to a 25% increase in team productivity.
- Researched and implemented innovative backend solutions to improve application performance and reliability.
- Proactively identified and resolved performance bottlenecks and technical issues, ensuring smooth application deployment and operation.
- Designed and implemented 50+ RESTful APIs and microservices, improving data transfer speeds by 20%.
- Optimized database performance, achieving 30% faster query response times through caching and indexing strategies.
- Contributed to a 15% reduction in project delivery times by incorporating TDD and automated testing practices.

## **MINEKO SOFTWARES**

*Software Developer (Remote) – C#.net, python*

**Dec., 2017 - July, 2019**

*Lagos, Nigeria*

- Designed, developed, and maintained high-quality web applications using modern programming languages and frameworks, ensuring alignment with client objectives.
- Collaborated with cross-functional teams—designers, product managers, and developers—to create, implement, and enhance software solutions tailored to client needs.
- Optimized application performance by refactoring code, implementing efficient algorithms, and adhering to best practices in code structure, design patterns, and architecture.
- Diagnosed and resolved technical issues through debugging, troubleshooting, and performance optimization to deliver seamless user experiences.
- Conducted rigorous unit and integration testing, ensuring software reliability, stability, and high-quality delivery.
- Contributed to process improvement by researching and integrating new technologies, enhancing product functionality and team efficiency.
- Documented technical specifications, development processes, and application updates to facilitate team collaboration and ongoing maintenance.

### **Key Achievements:**

- Developed and maintained web applications serving 20,000+ monthly active users, boosting user engagement by 30% through performance enhancements and new features.
- Improved backend service performance by 15% through efficient algorithms and strategic code refactoring.
- Conducted 50+ unit and integration tests, reducing post-release bugs by 30% and ensuring robust software reliability.

## PROJECTS:

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### Full Stack Developer (Laravel & Flutter)

Landlord App: [Android](#) | [iOS](#) | [Website](#) Tenant App: Android | iOS  
*Rentleey | Freelance | Real Estate Property Management App* (April 2024 – Oct. 2024)

**Technology Used:** Flutter, Laravel, Firebase push notifications, Paystack, Agile methodology.

Spearheaded the development of a state-of-the-art Real Estate application, leveraging the Flutter framework and Dart programming language, which set new benchmarks in the Real Estate sector.

- Played a pivotal role in both front-end and back-end development, ensuring a seamless, intuitive app experience with 100% robust functionality.
- Significantly enhanced app performance and user satisfaction by implementing meticulous development strategies and optimization techniques.
- Implemented Firebase Push Notifications, routing them through the Laravel backend to deliver timely alerts to users.
- Integrated Paystack as the payment gateway for handling rent payments and other transactions securely within the app.
- Added image recognition functionality for the Landlord app to identify and process property-related images efficiently.
- Adopting the MVC pattern with Riverpod for state management, to maintain clean and scalable code architecture. Backend Development:
- Developed a **RESTful Laravel API** for a Landlord and Tenant app, facilitating seamless communication between users.
- Architecture and implemented secure login mechanisms for three user types— Landlords, Tenants, and Admin —using Laravel.
- Crafted backend endpoints to enable Landlord to create, manage properties, bookings and payment.
- Developed functionalities for tenants to request for property, request for inspection, and make payment using paystack.
- Built admin functionality in the Laravel backend to manage and approve Landlords and Tenants, ensuring proper onboarding and control over platform participants.
- Designed and implemented the frontend of website to collect user information for a waitlist, allowing potential users to sign up and be notified once the platform was ready for them.
- Managed the project lifecycle with GitHub version control, setting up CI/CD pipelines for automated APK builds and deployment.
- Successfully built and deployed iOS and Android versions of apps, ensuring cross-platform compatibility and user access.

## Election Website | Nnamdi Azikiwe University Teaching Hospital (NAUTH)

Nnewi, Anambra State, Nigeria – [Website](#)

March 2024

Website designed and deployed for **Nnamdi Azikiwe University Teaching Hospital (NAUTH)** to facilitate **student elections** in March and November 2024 respectively. This secure and user-friendly platform enabled students to cast their votes remotely and engage in the electoral process.

**Technology Used:** Reacts, Laravel, Agile methodology.

### Key Features:

- **Secure Online Voting:** Implemented secure login and authentication features to ensure only eligible students could vote.
- **Real-Time Results:** Developed a feature for tracking and updating election results in real-time.
- **Responsive Design:** Built with **ReactJS**, ensuring a seamless and engaging user experience across devices.
- **Backend Management:** Utilized **Laravel** for the back-end, ensuring a robust and scalable solution for handling user data, voting records, and election results.
- **Scalability:** Optimized the platform to handle traffic during peak voting periods.
- **Collaboration with Administration:** Worked closely with the university's administration to align the platform with official election guidelines.

## Mobile App Developer (Flutter & Node.js) | DafeSoftware | Nurse Ready App [Android](#) | [iOS](#)

DafeSoftware (Canada | Nigeria)

Jan 2023 – March. 2023

- Collaborated with the DafeSoftware team throughout all phases of the SDLC to develop, maintain, and architect the Nurse Ready app, aimed at helping Internationally Educated Nurses (IENs) learn communicative strategies for the Canadian healthcare setting.
- Utilized Flutter and GetX for state management, ensuring efficient and scalable development of a task-based self-assessment tool designed to improve communication skills for nurses during high-stakes situations like infectious disease outbreaks.
- Integrated AI-driven pre-and-post assessment features to diagnose communication competencies, providing users with customized feedback aligned with Canadian nursing practice standards.
- Implemented push notifications using AWS SNS, enabling real-time alerts for app users.
- Developed a scenario-based experience set in a healthcare facility to simulate high-pressure environments, enhancing learning outcomes for users.

- Collaborated with Canadian nursing professionals, IENs, and language assessment experts to ensure the app met the unique communication requirements of the nursing field in Canada.
- Worked closely with business analysts, project managers, backend developers, and QA teams, ensuring a cohesive and high-quality product.
- Developed and maintained custom Flutter UI components and optimized their performance across the app.
- Managed over five custom Flutter dependency repositories, ensuring the app's components were modular and reusable.
- Used agile methodologies to efficiently manage development cycles, delivering timely updates and bug fixes to meet user and business needs.
- Partnered with creative and product teams to maintain a consistent and cohesive user experience across all app features.
- Successfully built and deployed iOS and Android versions of both apps, ensuring cross-platform compatibility and user access

**Technology Used:** Flutter, Node.js, AWS SNS for push notifications, Agile methodology.

**Full Stack Developer (Flutter & AWS) | [Speedview] [Android](#) | [iOS](#)**

Lagos Nigeria

***Memoirs** | Educational books/school community/  
Social media Solution.*

*June 2022 – Feb. 2023*

- Developed a **school alumni, student, Teachers, School owners and parent yearbook and social community app** using **Flutter** and **AWS** to facilitate seamless interactions and digital yearbook access.
- Implemented user authentication for five distinct roles (**Student, Alumni, Teacher, Parent, and Management**) using **AWS Amplify, Cognito, and DynamoDB**, ensuring secure login and data management.
- Utilized **AWS S3 Bucket** for storing and retrieving **eBooks (yearbooks)**, providing efficient and scalable storage solutions.
- Built a **school community platform** for **Students, Alumni, and Parents**, enabling social Interaction within a secure environment.
- Managed **Teachers, School Management, Students, and Parents** with robust control Panels, ensuring seamless user administration and data flow.
- Implemented **BLoC** and **Provider** state management patterns to maintain **clean, testable, and scalable architecture**, ensuring efficient handling of app states and business logic.
- Integrated **Push Notifications** to deliver real-time alerts and updates to users, improving engagement and interaction.
- **Implemented GraphQL with DynamoDB for efficient querying and real-time data interaction, enhancing the app's responsiveness and scalability.**

- Automated the build and deployment process using **GitHub Actions CI/CD** pipelines for **Android** and **iOS** platforms, ensuring smooth release cycles and continuous integration.
- Successfully built and deployed iOS and Android versions of both apps, ensuring cross-platform compatibility and user access

**Technology Used:** Flutter, **AWS Amplify**, **Cognito**, **DynamoDB**, **GraphQL**, AWS S3, BLoC, Provider, GitHub Actions CI/CD, Agile methodology, Trello, Zoom

## **Full Stack Developer (Laravel & Flutter) | [Global Star Tech]**

**9jaEduGames** - Educational Game Solution

[Android](#) | [Desktop](#) | [Website](#)

Sept 2022 – Feb. 2023

- Developed a robust Laravel API for the 9jaEduGames Quiz App, providing endpoints for managing users, quizzes, and game logic.
- Integrated the API with a Flutter frontend, ensuring seamless and responsive app interactions.
- Implemented Firebase Push Notifications for real-time alerts, routing them through the Laravel backend for proper delivery and control.
- Integrated Paystack as the payment gateway for secure in-app purchases and quiz entry fees.
- Designed and implemented admin functionality to manage quiz questions, answers, contests, and users, streamlining content moderation.
- Built the website frontend and a desktop application using Flutter, expanding platform accessibility across devices.
- Adopted the MVC pattern with Provider to maintain clean and scalable code architecture, ensuring a modular and maintainable structure for handling state management, dependency injection, and navigation.
- Modeled the quiz gameplay on "Who Wants to Be a Millionaire?" with similar sound effects and design, creating an immersive user experience.
- Enabled user login using purchased PINs for secure access and participation in quizzes.
- Developed APIs to manage Country, State, LGA, and Schools across Nigeria, enabling users to interact with dynamic regional data in the app.
- Utilized GitHub for version control and implemented CI/CD pipelines for automated APK and iOS build processes.
- Deployed Desktop and Android versions of the app, ensuring cross-platform consistency and smooth user experience.

- Developed and maintained the FollowMeBet platform, a social interactive betting app that allows users to engage in one-on-one betting challenges across soccer and diverse events, functioning as a mediator to ensure fair play and prompt payouts.
- Converted high-fidelity mockups into responsive Flutter code, ensuring seamless user experiences on both iOS and Android platforms.
- Implemented private and public betting functionality, enabling users to challenge friends or engage in the public betting market with strangers.
- Integrated real-time live scores for soccer matches, delivering up-to-date match outcomes via the app's live score feature.
- Built and exposed APIs to manage Country, State, LGA, and Bank Json data across Nigeria, dynamically populating user selections and improving localization.
- Utilized BLoC state management to maintain clean, efficient, and scalable code, ensuring effective handling of business logic and user interactions.
- Implemented phone number login for secure and convenient access to the platform.
- Integrated Paystack for payment gateway functionalities, providing seamless fund deposit and withdrawal experiences, with instant availability of funds for betting.
- Set up push notifications for real-time updates on bet challenges, results, and transactions, enhancing user engagement.
- Adopted the MVC pattern with BLoC, ensuring a modular and maintainable architecture, enabling separation of concerns for improved scalability.
- Managed project repositories with GitHub, setting up CI/CD pipelines for automated APK and iOS builds, streamlining deployment processes.
- Successfully deployed both iOS and Android versions of the app, ensuring a consistent and responsive user experience across platforms.
- Implemented betting-related features, including bet history, bet transactions, and the bets market, where users can browse and accept public bet challenges.
- Developed the website for FollowMeBet using ReactJS, ensuring an interactive and responsive web presence.

Technologies: Flutter, BLoC, Paystack, Firebase, GitHub CI/CD, ReactJS (for website)



- Developed and maintained Nuthoop, an online shopping platform that provides 24-hour delivery service for high nutritional, fresh farm produce, offering a healthier, cleaner, and competitively priced alternative to traditional markets.
- Translated high-fidelity Figma designs into responsive mobile code using Flutter, ensuring a smooth and visually appealing user experience across devices.
- Integrated the Paystack payment gateway, allowing users to seamlessly complete transactions and manage orders securely.
- Implemented push notifications to keep customers updated on order statuses, special offers, and delivery alerts.
- Developed and integrated APIs, ensuring secure and efficient communication between the mobile frontend and the backend services.
- Utilized Flutter Provider for state management, maintaining clean and organized code while ensuring the app's performance and scalability.
- Managed two distinct user types: Customer and Owner, providing tailored account management features for each, including order management and product listings for owners.
- Adopted Firebase messaging services, including real-time push notifications, improving app responsiveness and user data security.
- Employed Fastlane and GitLab CI for continuous integration and delivery (CI/CD), automating the build, test, and deployment processes for Android versions of the app.

**Technology Used:** Flutter, Provider, Dart, Laravel, Firebase, Paystack, Fastlane, GitLab CI, Figma designs, agile methodology, Zoom, Trello.

## **Open Source**

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[Real Estate](#)   [Uber Clone](#)   [Country State City Picker](#)   [ICT e-library](#)

[Bsc Laundry](#)

[OOJAVA Status Saver](#)

[Government college constitution class of 2000](#)

## LEADERSHIP

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### GDG (Google developer group)

2021 - 2022

*Mentor Flutter Developer Mentor*

- Created a curriculum to facilitate the learning of Flutter by junior developers.
- Mentored and trained 100+ young developers across Nigeria on the core/ basic concepts of cross-platform software development with Flutter & Dart

## KEY ACHIEVEMENTS

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### Mentorship in Flutter Development

Successfully mentored and trained over 100 young developers in Flutter, creating a curriculum that enhanced their learning experience.

### Contribution to Flutter Packages

Contributed to the Flutter community by developing and maintaining in-house packages used by the team and over 100 community members

## EDUCATION

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### OND/HND (Computer Science)

Anambra, Nigeria

*Federal Polytechnic Oko*

2017

- Completed a comprehensive curriculum covering programming languages (including Qbasic, Java, Visual basic, Pascal, C++, html, JavaScript, php, Fontan etc), database management, computer architecture, and network fundamentals, data structures & algorithms, *Mathematics and Statistics, logic gate etc.*
- Demonstrated a high level of commitment and academic excellence in my field of study