

MICHAEL EMEFIENEM

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EDUCATION

LAGOS STATE UNIVERSITY

Lagos, Nigeria | July 2021 – September 2025

Bachelor of Science in Computer Science

CGPA: 4.36/5.0

WORK EXPERIENCE

Bond – Remote

Frontend Developer Contract

January 2026 – March 2026

- Led development of the company's marketing website and internal back-office platform in a fast-paced startup environment using React and TypeScript.
- Designed and implemented the frontend project structure and architecture to support scalable development and maintainable code across the platform.
- Contributed to merchant dashboard development, implementing scalable UI components and improving transaction data visibility.
- Integrated frontend systems with backend APIs, ensuring reliability and clean state management.
- Delivered production-ready features under tight deadlines while maintaining modular and reusable code architecture.

Axendit Limited – Lagos, Nigeria

Software Engineer

November 2025 – Present

- Co-developed Version 2 of the Nigeria Civil Aviation Authority (NCAA) Consumer Protection Portal alongside two engineers, enhancing regulatory complaint processing at a national level.
- Improved role-based access control and authentication mechanisms for sensitive aviation data.
- Refactored frontend modules to improve scalability, maintainability, and performance.
- Contributed to system architecture decisions to support increased platform reliability and secure data workflows.

Software Developer Intern

March 2024 – November 2024

- Augmented operational efficiency by 30% by designing a real-time communication system with Node.js and WebSocket, streamlining interactions among school stakeholders.
- Automated attendance tracking, grade management, and complaint resolution with React and PostgreSQL, reducing administrative costs by 25%.
- Partnered with cross-functional teams, ensuring project alignment and improving decision-making through clear communication.
- Enhanced data security and scalability by integrating AWS and JWT authentication, addressing real-time user authentication challenges.

Zidio Development – Remote

Web Developer Intern

June 2023 – February 2024

- Accelerated site conversion rates by 20% by developing and maintaining high-performing, responsive and complex web applications using React, Redux, with improving page load times and optimizing for mobile and cross-browser compatibility, which enhanced overall user experience and engagement.
- Cut website maintenance time by 40% by implementing reusable components and modular code structures in JavaScript, reducing development cycles for new features and minimizing long-term upkeep costs.

PROJECTS

School Management System | React, Node.js and PostgreSQL

- Engineered and deployed a scalable system enabling real-time interaction and data transmission between school stakeholders, supporting features like grade tracking, and student information management and secure messaging assignment uploads (in file or text format), and PDF download support.
- Ensured high system compatibility across devices, integrating tools and technologies such as React, Node.js alongside Express.js, and PostgreSQL alongside with Prisma ORM to optimize performance, usability, and security as well as Zustand for state management.

Wireframe-to-Code Converter | Next.js, Openrouter.ai, CodeSandbox, PostgreSQL and Drizzle ORM

- Crafted a system to convert Wireframes into React components styled with Tailwind CSS for pixel-perfect UI.
- Implemented TypeScript for enhanced type safety and scalability, and integrated Firebase for backend services and authentication.
- Utilized PostgreSQL with Drizzle ORM to handle database operations and leveraged OpenRouter.ai for AI-driven code generation.
- Provided an interactive code editor experience via CodeSandbox and offered an option to re-generate code with seamless DB updates.

AI Waste Management System | Next.js, Google Gemini AI, PostgreSQL and Drizzle ORM

- Built an AI-assisted platform for waste verification, user rewards, and community engagement through interactive leaderboards.
- Leveraged Next.js, Google Gemini AI, and TypeScript with React Hooks for efficient development and real-time task management.
- Secured authentication with Web3Auth, styled with Tailwind CSS, and optimized data handling using Drizzle ORM.

Youtube Clone | React and Material UI

- Built a fully functional YouTube clone that allows real-time video search and streaming, integrating Rapid API for video data retrieval and Axios for API requests.
- Ensured smooth navigation and user experience by maintaining clean, intuitive design principles and efficient video streaming capabilities.

SKILLS

Technical Skills

- Programming Languages:** HTML, CSS, JavaScript, TypeScript, Solidity
- Frontend:** React, Next.js, SCSS, Tailwind CSS, Redux, Zustand
- Backend & Databases:** Node.js, Express.js, GraphQL, Prisma, Drizzle, PostgreSQL, MongoDB, Firebase
- Tools & Platforms:** Visual Studio Code, Git, Postman, Docker, Microsoft 365, AWS, Vercel, Render

Soft Skills: Communication, Team Collaboration, Leadership, Problem-Solving, Adaptability, Critical Thinking.

