Obafemi Ayoola Adebayo-Oyetoro

adebayokiisi@gmail.com • LinkedIn • +2349138513718 • Lagos State, Nigeria

PROFILE

I am a versatile software engineer with expertise in architecting scalable full-stack solutions and integrating machine learning capabilities into production environments. With experience spanning enterprise networking, artificial intelligence, and cloud-native development, I excel at translating complex system requirements into high-performance applications using modern JavaScript ecosystems and Python frameworks. Adept at leading cross-functional collaborations, optimizing application performance, and managing complete software lifecycles from architecture to deployment on edge platforms. Additionally, I possess strong technical communication skills, specializing in comprehensive documentation and system design specifications, and am proficient in the usage of various emerging web technologies.

EDUCATION

Computer Science, *Bells University Of Technology* | Ogun State, Nigeria | Jan 2021 - Jun 2025

Certifications

New Horizon

HRMT CONSULT

SKILLS

Frontend: HTML5 | CSS3 | Bootstrap | JavaScript | React.js | Vue | Three.js | TypeGPU | Chrome Extensions API | Responsive Design

Backend: Python | FastAPI | Golang | Node.js | RESTful APIs | WebSockets | SQL | PostgreSQL | MongoDB

Networking: Cisco IOS | VLANs | EtherChannel | Layer 2/3 Switching | Network Design | Troubleshooting

Tools & Technologies: Git | GitHub | Docker | Vercel | Fly.io | Cisco Packet Tracer | Microsoft Visio | Figma | Paper

WORK EXPERIENCE

Full-stack developer, *New Adroit Advantage Limited* | Lagos, Nigeria | June 2025 - Present

- Built the company's corporate web platform from scratch using Next.js, React, and Framer Motion, collaborating closely with design and content leads to flesh out the visual identity of the organization.
- Implemented secure backend route handlers and transactional email workflows using Resend for real-time cargo tracking and quote requests, complete with server-side rate limiting and spam filtering.
- Maintained and optimized site architecture, implementing programmatic SEO sitemaps, dynamic metadata generation, and responsive layouts optimized for fast load times and mobile conversion.

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Framer Motion, Resend, Vercel Analytics

Full-stack developer, *Freelance* | Remote | Jun 2025 - June 2026

- Developed a marketing website revision for an AI-powered EU public tender procurement tool; implemented a narrative scrolling experience showcasing their 4-stage workflow and responsive design using Tailwind CSS, Next.js, Shadcn, and Framer Motion.
- Designed a minimalist showcase portfolio site for a photographer based in Lagos, implemented a clean, whitespace-focused layout for viewing and interacting with images, and optimized for speed, loading time, image quality, and media content presentation.
- Developed a website for a branding collateral production company based in Lagos, implemented modern UI, and ensured ease of usage, showcasing the brand identity
- Developed a professional portfolio for an architect featuring an interactive career timeline, software proficiency visualizations, and project galleries showcasing interior visualization work for various projects they have delivered.
  Tech Stack: Vanilla JS, HTML5, CSS, Vite, Next.js, React, Tailwind CSS, Framer Motion, Python, Typescript

Networking Intern, *Castlenet Consulting Limited* | Lagos, Nigeria | Mar 2024 - Aug 2024

- Gained hands-on experience in enterprise network design, implementation, and troubleshooting for banking sector clients, focusing on Layer 2 switching protocols and network redundancy optimization.
- Created comprehensive network topology diagrams using Microsoft Visio and resolved configuration issues with Cisco CLI tools, cutting troubleshooting time by 40% and improving documentation accuracy for client networks.
- Collaborated with senior network engineers to design scalable network architectures for mission-critical banking environments, implementing best practices for security, performance optimization, and reliability.
- Contributed to network assessments and troubleshooting sessions, identifying bottlenecks and proposing optimization strategies that improved overall network efficiency and reduced latency for client applications.

  Tech Stack: Microsoft Visio, Cisco Packet Tracer, Microsoft

Frontend Developer Intern, *Hotels.ng* | Lagos, Nigeria | Sep 2023 - Oct 2023

- Advanced to Stage 3 of the HNG Internship program, a competitive talent pipeline attracting thousands of candidates, by consistently delivering production-quality frontend solutions under aggressive weekly deadlines and technical evaluations.
- Developed responsive web applications using React.js, JavaScript (ES6+), HTML5, and CSS3, implementing mobile-first design principles and CSS Grid/Flexbox layouts that ensured seamless cross-browser compatibility and improved mobile responsiveness.
- Integrated RESTful APIs and managed asynchronous data fetching using modern JavaScript features (async/await and Fetch API), building dynamic user interfaces that handled real-time data updates and state management efficiently.
- Collaborated with distributed remote teams via Git/GitHub workflows, conducting code reviews and resolving merge conflicts to maintain codebase integrity while adhering to industry-standard branching strategies and commit conventions.
- Implemented component-based architecture and reusable UI libraries, reducing code redundancy by approximately 35% and accelerating feature development cycles for rapid prototyping assignments.
  Tech Stack: HTML5, Javascript, CSS3, Git

SELECTED PROJECTS

Full-Stack Developer *Watched: Overlay* | Dec 2025 - Jan 2026

- Developed and published a Chrome extension that automatically tracks movies and TV shows from Google Search, building viewing history and providing intelligent recommendations. Currently serving active users with real-time analysis capabilities.
- Built a connected dashboard application enabling users to view their complete viewing history, analyze watching patterns, and receive personalized recommendations based on their media consumption.

- Implemented social features allowing users to connect with friends, view their activities, and engage through comments, fostering a community around shared media interests.
- Designed and developed RESTful APIs for seamless data synchronization between the extension and backend, ensuring real-time updates and maintaining data consistency across devices.
- Successfully published to Chrome's web store following Google's review process, implementing privacy policies, secure authentication, and data handling practices compliant with Chrome extension standards.
- Utilized local storage and background scripts for efficient data management, optimizing performance to minimize impact on browser resources while maintaining a responsive user experience.
  Tech Stack: Python 3, FastAPI, Gunicorn for production, SQLAlchemy, PostgreSQL, Google OAuth 2.0, JWT (JSON Web Tokens), Jinja2, HTML5, Vanilla JavaScript, CSS, Lucide Icons, TMDB (The Movie Database) API, Chrome Manifest V3.

Full-Stack Developer, *Quoted - Movie Quote Search Engine* | Oct 2025 - Nov 2025

- Built a full-stack web application enabling users to search through thousands of iconic movie quotes with text and voice search capabilities. Deployed on Fly.io with seamless performance and a user-friendly interface
- Developed a responsive frontend using HTML5, CSS3, and JavaScript with real-time search functionality, implementing debouncing and optimized rendering for instant quote discovery across large datasets.
- Integrated Web Speech API to enable voice search capabilities, allowing users to speak movie quotes and receive accurate search results, enhancing accessibility and user experience.
- Architected the backend infrastructure using Python and FastAPI, implementing efficient search algorithms and database queries to handle thousands of movie quotes with sub-second response times.
- Implemented user features, including a recent search history, a quote submission system, and data export functionality, enabling community contribution and personalized user experiences.
- Deployed the application to the Fly.io cloud platform with proper CI/CD practices, ensuring high availability, automatic scaling, and minimal downtime for the production environment.
- Optimized search performance using full-text search indexing and caching strategies, reducing database load by 50% while maintaining fast and accurate quote retrieval.

  Tech Stack: Python 3, Flask, PostgreSQL, Jinja-2, Vanilla CSS, Flask (rate limiter, SQLAlchemy, Scheduler), OpenAI Whisper API

ML Engineer/Full-Stack Developer, *GPA Prediction & Analysis System* | Mar 2025 - Aug 2025

- Architected a full-stack application with Golang backend for high-performance API services, integrating Python-based machine learning models for CGPA prediction and analysis.
- Designed and trained regression models using scikit-learn and TensorFlow, achieving 85%+ prediction accuracy on student academic data, enabling reliable grade forecasting.
- Implemented reinforcement learning algorithms to provide personalized study recommendations based on student performance patterns, course difficulty, and historical grade data.
- Built RESTful APIs in Golang with efficient data handling and model integration, ensuring fast response times (<200 ms) for prediction requests and seamless communication between the frontend and ML services.
- Developed an interactive React-based dashboard with data visualization using Chart.js, allowing students to track academic progress, view performance trends, and explore AI-driven insights.
- Implemented secure user authentication and data privacy measures, ensuring student academic information is protected with encryption and following best practices for sensitive data handling.

  Tech Stack: React Expo, TypeScript, Expo Router, React Libraries, Golang, Chi Router, PostgreSQL, JWT (JSON Web Tokens), Sentry, Docker

Frontend Developer, *FaajiFind - Service Discovery Platform* | Nov 2025 - Dec 2025

- Developed a responsive web application for discovering Nigeria-wide events (parties, concerts, festivals, and tech summits); implemented city-switching functionality, real-time event search, and category-based filtering (Party, Concert, Festival, Rave, Tech, Business, and Career).

- Architected an event discovery interface featuring seasonal campaign view, date-range filtering (next month/3 months/year), and dual-view navigation (live now, calendar, on radar, vibe map).
- Built event detail modals with integrated ticketing flows to the various ticket platforms hosting it, calendar integration, and structured venue information display, enhancing user conversion and event planning workflow.
- Implemented an event submission system, enabling organizers to list independent events and integrate alert notifications for user engagement.
- Optimized performance using React.js component architecture, reducing initial page load by 40% through code splitting and image optimization; deployed on Vercel with Git-based CI/CD for continuous delivery.

Tech Stack: React, Vite, Tailwind CSS, PostCSS, TanStack Query, Leaflet, React Leaflet, Lucide, Python 3, Flask 3.1, PostgreSQL, Firebase/Firestore, Google Generative API, BeautifulSoup 4