

EMMANUEL ADEMOLA

SOFTWARE ENGINEER

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SUMMARY

Highly dedicated and results-driven software engineer with 3+ years of expertise in web development, system programming, IoT and robotics. Specialise in building and deploying scalable, high performance web applications, designing and implementing innovative tech solutions.

My backend expertise includes optimising systems with caching strategies, serverless architectures and API integrations, as well as implementing advanced features like custom authentication workflows and dynamic form handling. Craft dynamic interactive UIs for optimal user experience and performance on the frontend, ensuring pixel-perfect conversions from client UI designs. Manage full application lifecycles, from analyzing user requirements to deployment on platforms like AWS, DigitalOcean, PythonAnywhere, Vercel and GitHub.

EXPERIENCE

- **Software Engineer - Full Stack** January 2025 – Present
Media10 Studios – Remote
 - Build and maintain scalable APIs using Django and Flask to power web applications.
 - Design secure user authentication with JWT and implement session management using Redis.
 - Manage PostgreSQL databases and optimised query performance for high-traffic systems.
 - Automate CI/CD deployments using GitHub and cloud VPS hosting.
- **Backend Developer (Freelance)** March 2023 – Present
Upwork/Fiverr – Projects
 - Deliver custom backend solutions for clients using Django and Flask.
 - Integrate payment gateways (Paystack, Stripe) into client web applications.
 - Handle deployment using Heroku and DigitalOcean, with SSL and basic monitoring.
- **C.T.O / Technical Instructor** April 2022 – April 2025
EduPoint Limited, Lagos
 - Provided technical support to 10+ teams, improving issue resolution time by 35% through structured collaboration.
 - Designed robotic prototypes, leading to improvement in system efficiency for student projects.
 - Taught coding and robotics to 200+ students, with 80% progressing to advanced levels in programming and robotics.
 - Led students to win 3+ national coding and robotics competitions, boosting institutional recognition.
- **Backend Developer Intern / Technical Instructor** October 2019 – November 2022
UNITEs Cisco Networking Academy
 - Collaborated with a cross-functional team of engineers and trainers using Git for version control and agile task boards for sprint planning.
 - Assisted in designing database models and optimising queries for efficient record management.
 - Contributed to unit and integration testing, ensuring consistent and reliable API behaviour.
 - Learned and applied Git workflows for collaborative development.
 - Conducted hands-on sessions for 500+ students, achieving a 90% improvement in their networking and programming skills.
 - Managed student records efficiently, reducing administrative errors through optimised data entry processes.

- Data Analysis Instructor** November 2021 – February 2022
USADF / LSETF
 - Trained 15+ students in Python-based data analysis, achieving an 85% course completion rate.
 - Guided learners in interpreting datasets, enhancing their data-driven decision-making skills.
 - Provided mentorship and hands-on training, with 60% of students securing internships or jobs post-training.
- WordPress Web Developer / Technical Support** August 2015 – April 2016
Ifeoluwa Ventures, Lagos
 - Designed and developed custom WordPress websites for schools, SMEs and nonprofits using Elementor and custom themes.
 - Modified templates and used child themes to meet unique client requirements.
 - Managed WordPress security, backups, and performance optimisation using tools like Wordfence and LiteSpeed Cache.
 - Processed and managed 10+ documents daily in a cyber café, improving workflow efficiency by 25%.
 - Developed foundational skills in computer operations and office applications.
 - Maintained accurate records of daily business transactions.

PROJECTS

- Quizzen App (2025) – [Demo](#) | [Preview](#)**
 An interactive quiz platform with real-time scoring, leaderboards, OAuth login and a responsive UI.
- CurrencyMate (2024) – [Preview](#)**
 A currency conversion tool providing real-time exchange rates for travelers and finance enthusiasts.
- EcoBin (2024) – [Demo](#) | [GitHub](#)**
 A smart waste bin with motion detection and fill-level sensors, eliminating physical contact and optimising waste management.
- Radiance Smart City (2023) – [Demo](#) | [GitHub](#)**
 An Arduino-powered smart city system featuring automated street lighting, RFID-based access and flood detection.
- Simple Shell (2023) – [GitHub](#)**
 An interactive quiz platform with real-time scoring, leaderboards, OAuth login and a responsive UI.

EDUCATION

- Software Engineering** 2025
ALX Africa
- BSc. (Ed.) Computer Science** 2020
University of Benin

PROFESSIONAL CERTIFICATES

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| ✓ Software Engineering - ALX Africa | ✓ IT Essentials - Cisco |
| ✓ Python - Cisco , Sololearn , TechQuest | ✓ Introduction to CyberSecurity - Cisco |
| ✓ HTML - Sololearn | ✓ Introduction to IoT - Cisco |
| ✓ CSS - Sololearn | ✓ Networking - Cisco |
| ✓ Data Analytics - Side Hustle 5.0 | ✓ Soft Skills Training - Jobberman |
| ✓ Leadership - Myles Leadership University | |

SKILLS

HTML • CSS • JavaScript • TypeScript • Python • Node.js • LAMP • MySQL • PostgreSQL • Redis • Flask • Django • Authentication • Version Control • CI/CD • AWS • Docker • HAProxy • NGINX • systemd • Performance Optimisation • UI/UX Implementation • API Development & Integration • Arduino • Microcontrollers • Sensors • Pictoblox • TinkerCAD • Fritzing • Project Management • Team Collaboration • Curriculum Development • Technical Writing & Development • Time Management • Communication • Problem Solving • Leadership

AWARDS & ACHIEVEMENTS

- ✓ **Finalist** – Fuze Talent Show 3.0 (2024)
- ✓ **Winner** – STEMITE Zone Fair –Junior Category (2024) (EcoBin Project)
- ✓ **Winner** – Edupoint RoboCode Fest 2.0 (2023) (Radiance Smart City Project)
- ✓ **Second Place** – Robocode Fest 1.0 (2024) (RSB 1.0 Smart Bin Project)
- ✓ **Most Outstanding Tutor** – EduPoint Limited (2022)

LEADERSHIP & VOLUNTEERING

- ✓ **Chief Technology Officer** – EduPoint Limited (2024 – 2025)
- ✓ **Co-Founder & Coordinator** – R2-7 Foundations (2022 – Present)

REFERENCE

Available upon request