ADEMOLA EMMANUEL DAMILOLA
SOFTWARE ENGINEER
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SUMMARY

Highly dedicated and results-driven software engineer and technical instructor with 2+ years of expertise in web development, system programming, IoT and robotics. Specialize in building and deploying scalable, high performance web applications, designing and implementing innovative solutions and mentoring aspiring software engineers.

My backend expertise includes optimizing 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, Firebase, PythonAnywhere, Vercel and GitHub. Collaborate with teams to deliver high-quality software and hardware solutions that drive impact and efficiency.

EXPERIENCE

- **C.T.O / Technical Instructor** — September 2022 – Present
  EduPoint Limited, Lagos
  - Providing technical support to 10+ team, improving issue resolution time by 35% through structured collaboration.
  - Design and develop robotic prototypes, leading to improvement in system efficiency for student projects.
  - Teach 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.

- **Network Engineer / Technical Instructor** — October 2019 – November 2022
  UNITeS Cisco Networking Academy
  - Set up and maintained 20+ network systems, reducing downtime by 40% through proactive troubleshooting.
  - Organized and maintained IT resources, ensuring 90% system uptime for students' practical sessions.
  - 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 optimized data entry processes.

- **Data Analysis Instructor** — November 2021 – February 2022
  USADF / LSETF
  - Trained 15+ students in Python-based data analysis, leading to an 85% course completion rate.
  - Guided learners in dataset interpretation, improving data-driven decision-making among participants.
  - Provided mentorship and hands-on training, with 60% of students securing internships or jobs post-training.

- **Computer Operator** — August 2015 – April 2016
  Ifeoluwa Ventures, Lagos
  - 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 optimizing 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   2021
  University of Benin

PROFESSIONAL CERTIFICATES

- Software Engineering - **ALX Africa**
- Python - **Cisco**, **Sololearn**, **TechQuest**
- HTML - **Sololearn**
- CSS - **Sololearn**
- Data Analytics - **Side Hustle 5.0**
- IT Essentials - **Cisco**
- Introduction to CyberSecurity - **Cisco**
- Introduction to IoT - **Cisco**
- Networking - **Cisco**
- 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 Optimization • 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 – Present)
- **Co-Founder & Coordinator** – R2-7 Foundations (2022 – Present)

REFERENCE

Available upon request