

# SANUSI, Mustapha Babansoro

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## PROFESSIONAL SUMMARY

MSc Candidate in Computer Science (Research focus: Artificial Intelligence), School of Computer Science and Engineering, University of Electronic Science and Technology of China (UESTC), Chengdu. Highly motivated software engineer with a strong foundation in AI research and systems engineering. Experienced building and deploying intelligent systems including AI agents, LLM integrations, and reinforcement-learning prototypes, and skilled in on-device and edge inference for hardware-constrained environments. Proficient in Python, TypeScript, Node.js, PostgreSQL, and Supabase, with practical experience delivering web and mobile applications, backend services, and real-time interfaces. Familiar with embedded systems and hardware-aware deployment, and experienced integrating AI into production using CI/CD and DevOps practices for on-premise and edge deployments. Passionate about solving practical problems through intelligent computing and advancing applied research.

Research interests: AI Agents & LLMs · On-Device & Edge Inference · Reinforcement Learning · Embedded Systems & Edge Deployment · DevOps for AI

## EDUCATION

**MSc Candidate in Computer Science and Engineering** **Nov 2025 - expected Jul 2027**  
(Research focus: Artificial Intelligence)  
University of Electronic Science and Technology of China (UESTC), Chengdu, China

**Bachelor of Science (B.Sc.) in Software Engineering** **2020-2024**  
Al-Hikmah University, Ilorin, Kwara State, Nigeria.

**High School Graduated:** **2019-2020**  
Key Special Academy, Guarinpa, Abuja, Nigeria

**High School Attended:** **2017-2019**  
Beijing World Youth Academy (北京世青国际学校), Beijing, China

## SKILLS

### Technical Skills:

- AI & Agents: AI model development, deep learning, AI agents & LLM integration, reinforcement learning, lightweight model optimization for efficient inference, and on-device/edge inference.
- Full-Stack Development: web and mobile frontends, responsive UI.
- Backend & Databases: Node.js, PostgreSQL, Supabase, Convex.
- Real-Time Interfaces & Visualization: custom dashboards and real-time telemetry.
- DevOps & Deployment: GitHub Actions, CI/CD workflows, on-prem and edge deployments, secure development practices.

### Personal Strengths:

- Strong leadership, cross-functional team collaboration & mentoring
- Excellent written & verbal communication; knowledge transfer
- Critical & analytical thinking; creative problem-solving
- Effective time management, organization & adaptability
- Attention to detail, continuous learning mindset

### Tools and Software:

- Python / ML & LLM tooling: Python · PyTorch · Prompting · Transformers · Hugging Face · LangChain · Deepseek
- Inference & Edge acceleration: OpenAI SDKs · LangChain integrations · Docker · ONNX · TensorRT · OpenVINO (inference & edge acceleration)
- Frontends (web & mobile): Next.js · React · TypeScript · Tailwind CSS · Framer Motion
- Backend & Databases: Node.js · Supabase · Convex · PostgreSQL · Clerk API
- DevOps & Source control: Git · GitHub · GitHub Actions · CI/CD & edge deployment tooling
- IDE & tools: VS Code · Postman · Markdown & GitHub Projects · Raspberry Pi / embedded tooling

## INTERNSHIP EXPERIENCE

**Digital Literacy and Capacity Development Intern** **May 2023 – December 2023**  
National Information Technology Development Agency (NITDA), Nigeria

- Supported DLCD's strategy to advance digital literacy and IT talent across Africa through partnerships, policy

framing, and curriculum design.

- Helped develop, launch, and monitor digital skills initiatives and tools to close the IT talent gap.

## PROJECTS

### Campus Navigation and Dynamic Display System

- Built a mobile & digital signage platform guiding users around campus with map navigation and live event boards.
- Tech: React Native, Node.js, Google Maps API
- Impact: +30% campus wayfinding efficiency; streamlined announcements to 5,000+ users.

### BTAML Universe (Pan-African News & Insights)

- Launched a unified web portal delivering real-time news, business data, scholarships, and legal resources.
- Tech: Next.js, Supabase, TypeScript, Tailwind CSS
- Impact: Streamlined access to African-focused insights and resources, boosting user engagement and satisfaction across stakeholders.

### Lytrana AI - Data Insights Platform

- Developed CSV upload, instant analytics, and team dashboards for non-technical users.
- Tech: Next.js, TypeScript, Gemini AI, Convex, PapaParse
- Impact: 80% reduction in manual report generation time.

### Trainetic AI - Personalized Fitness Coach

- Created an AI-driven workout generator with progress tracking and adaptive coaching.
- Tech: Next.js, React, Clerk API, Convex, OpenAI
- Impact: 90% user engagement retention over 4 weeks.

## CONFERENCES ATTENDED

### National Digital Literacy Framework

July 2023, NITDA

- Developed a framework aimed at achieving 95% digital literacy in Nigeria by defining digital literacy competencies and supporting policy, curriculum development, and assessment.

### Digital Nigeria International Conference

October 2023 (Annual Event)

- Explored diverse challenges and opportunities within the Nigerian startup ecosystem, networking with industry experts, investors, and technology enthusiasts to gain insights into trends across blockchain, Web3, IoT, AI, XR, and the Metaverse.

## PROFESSIONAL CERTIFICATIONS

- **Coursera (Meta)** Programming in Python
- **Coursera (Deeplearning.ai)** AI for Everyone
- **Coursera (Meta)** Django Web Frameworks
- **Coursera (Meta)** Application Programming Interface (API)
- **Coursera (Meta)** Full Stack Development
- **Coursera (Meta)** Version Control
- **Coursera (Infosec)** Cyber Security Essentials
- **Coursera (Google)** Data Analysis Essentials
- **Coursera (Microsoft)** Work Smarter with (Word, PowerPoint, Excel)
- **Coursera (IBM)** Cloud Computing Essentials
- **Cisco (NITDA)** End-Point Security
- **Cisco (NITDA)** Programming in Python
- **NITDA (SIWES)** Prompt Engineering

## PUBLICATIONS

- Sanusi, M.B & Muhammad M.M(2024). Campus Navigation and Dynamic Display System Using React-Native, JavaScript and Node.JS 'Journal of Software Impacts'(in review)

## LANGUAGES

- English (Fluent)
- Chinese (Basic)
- Hausa (Native)

## AWARDS & HONOURS

- BSc Software Engineering: Dean's List (Merit)
- NITDA-Coursera Top Highflyer Award
- SIWES Internship: 95% outstanding performance rating (graded by School)

## REFERENCES

References available upon request.