

ADEWOLE, JESUTOFUNMI DEBORAH

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EDUCATION

Prairie View A & M University, Texas, United States | **MSc. Electrical Engineering** (In view) Jan 2026 - Dec 2027
Obafemi Awolowo University, Ile-Ife Nigeria | **BSc. Electronic and Electrical Engineering** Apr 2016 - Jan 2022

WORK EXPERIENCE

CREDIT LAB, PVAMU, Texas, United States | **Research Assistant** (Supervisor: Dr Lijun Qian) Jan 2026 – Present
Research Topic: *Adaptive Computation: Early-Exit Neural Networks with Edge Hardware for Real-Time Inference.*

- Prototyping early-exit networks on edge hardware, targeting $\geq 40\%$ lower latency and $\geq 30\%$ lower energy at fixed accuracy.

EEE Department, OAU, Ile-Ife, Nigeria | **Undergraduate Researcher** (Supervisor: Dr O.P Awe) Jan 2019 – Dec 2021
Thesis: *Hybrid Features and Machine Learning for Spectrum Sensing in Cognitive Radio Networks.*

- Engineered a spectrum sensing pipeline: extracted hybrid features, trained SVM models and evaluated performance under noisy RF conditions, achieving **91.7%** accuracy and improved detection reliability by $\sim 25\%$ over baselines.

African Centre of Excellence, OAU, Ile-Ife, Nigeria | **Electronic Engineering Intern** Apr 2018 - Sep 2019

- Developed the firmware and hardware design for a fingerprint device used in **2** faculties, reducing processing time by $\sim 70\%$.
- Created device drivers for microcontroller peripherals, encompassing ADCs, DAC, Timers, and Interrupts.
- Designed and calibrated an ultrasonic vehicle speed measurement device, creating the embedded firmware for signal acquisition and noise filtering on a microcontroller, reducing measurement error by $\sim 35\%$.
- Organized a team of **7** to design and deploy a prototype that eliminated unauthorized access on **5** doors using **RFIDs**.

eBanqo, Remote | **AI Product Lead** Feb 2025 - Oct 2025

- Directed implementation of bot-first automation for B2B clients, increasing self-serve resolution to **85%** of support tickets.
- Introduced semantic caching that cut wait time by **92%** and reduced support drop-offs by **80%**, lifting CSAT by ~ 15 points.

Fertitude, Remote | **Technical Product Lead** Sep 2023 - Jan 2025

- Launched a women's health platform from zero to a **5-figure** user base, driving $>1000\%$ growth in acquisition and retention.

DROHealth, Lagos, Nigeria | **Technical Product Manager** Mar 2021 - Sep 2022

- Shipped API and white-label SaaS products that unlocked 3 new regional markets and generated **\$10M** in first-year revenue.
- Led an app overhaul that increased acquisition by **300%**, improved retention by **78%** and **doubled** revenue year-over-year.
- Ran subscription experiments that delivered a $\sim 45\%$ uplift in paid conversions and informed **6** roadmap decisions.
- Carried out market analysis and designed pricing that grew the network to **205** medical experts and **290K+** active users.

LEADERSHIP ACTIVITIES, TEACHING AND VOLUNTEER EXPERIENCE

EEE Department, OAU, Ile-Ife, Nigeria | **Team Lead/Research & Teaching Assistant** Nov 2017 - Jul 2019

- Led a team of **14** students working with **2** professors on research projects creating innovative solutions using AI and IoT tech.
- Taught **20** students and boosted average performance by **55%** through targeted instruction and intensive revision sessions.

DroidCamp, Remote, Nigeria | **Android Mentor** Feb 2020 - Jul 2021

- Mentored **18** beginner Android engineers to job-ready level, with **60%+** securing roles within **3** months of completion.

AR/VR Africa, Remote | **Strategy Volunteer** Jul 2022 - Mar 2023

- Co-led planning for a major XR program across **16+** African countries, spanning training, boot camp and metathon phases.

SKILLS AND CERTIFICATIONS

Languages: English (*Professional proficiency*), French (*Basic proficiency*)

Hard Skills: Hardware: PCB Design, Electrical Drawing, IoT Systems, Proteus, EagleCAD, Microcontrollers (STM32, ESP32, Atmega328, RaspberryPi)

ML: Python, NumPy, Scikit-learn, PyTorch, Matlab, CoreML, JAX

Software Engineering: C, C++, Java, Python, Kotlin, Swift, JavaScript/TypeScript, Django, Node.js, REST/GraphQL APIs

Product & Tools: Product Strategy, UX/UI Design, Analytics, JIRA, Figma, Xcode, Android Studio, Git, AWS Services.

Soft Skills: Writing, Storytelling, Public Speaking, Product Taste, Systems Thinking, Event Planning, Mentoring.

Certifications: IBM Machine Learning (*IBM*), Distinction in SwiftUI (*HackingwithSwift*), Product Certification (*Product School*)