



Amusa
Senior

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Software

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Engineer

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Summary

Experienced software engineer and founder with over a decade of expertise in Java and Android development, building high-performance systems across mobile, desktop and embedded environments

Education

Afe Babalola University, Ado-Ekiti (ABUAD) – *Bachelor of Engineering in Mechanical Engineering*
Ado-Ekiti, Nigeria | Sep 2013 – Jul 2020

Obafemi Awolowo University International School (OAUIS) – *Secondary School Education*
Ile-Ife, Nigeria | Sep 2007 – Jul 2013

Research & Innovation

Whitepaper – The Death of Compression: Chaos Engines (Ovulation and Germination)
Ile-Ife, Nigeria | May 2025 – Present

- A novel post-entropy data reduction paradigm since 2014, now advancing through prototype development to redefine storage and transmission efficiency
- Explores hardware-aware, energy-efficient data reduction strategies

Undergraduate Thesis – Energy Performance Analysis of an Improved Flapping Wing Unmanned Aerial Vehicle (UAV– Ornithopter)

Ado-Ekiti, Nigeria | Sep 2019 – Aug 2020

- Led software and embedded systems integration for UAV prototype
- Built Android flight control + live video streaming via sockets using C++ and Java
- Deployed tiny YOLO object detection model using Deeplearning4j on Raspberry Pi for real-time obstacle avoidance
- Collaborated with mechanical engineering colleagues to achieve integrated system dynamics

Professional Experience

Totally Rocking technologies Ltd. (TRt) – *Senior Software Engineer (Team Lead)*

Osun, Nigeria | Jan 2021 – Present

- Lead end-to-end Android & iOS development for event-focused apps
- Integrated APIs (Sensor, Maps, Storage, Notifications, Payments)
- Engineered GPU routines (TornadoVM, Vulkan) for intensive tasks
- Mentored junior engineers and led Agile/SCRUM delivery
- Designed secure, scalable architectures and UI/UX systems

Funmilayo A. Quadri & Co. – *Software Engineer (Intern)*

Abuja, Nigeria | May 2018 – Aug 2018

- Led the mobile team and designed website mock-ups, including UI assets for high-profile clients like the Federal Inland Revenue Service (FIRS)

Olam Grains (Crown Flour Mills) – *Mechanical Engineer (Intern)*

Lagos, Nigeria | May 2017 – Aug 2017

- Handled preventive and corrective maintenance of production equipment and built a mobile application to streamline reporting and reduce downtime

Obafemi Awolowo University – ICT Center – *Software Engineer (Intern)*

Osun, Nigeria | Jan 2019 – Jul 2019

- Improved university systems by optimizing the student portal and built a mobile application to ease administrative workload

Professional Memberships	IEEE Computer Society, ACM (Association for Computing Machinery), ASSEV (Association of Event Vendors), Nigeria
Technical Projects	<ul style="list-style-type: none">• Layout Preview Sync Optimizer – <i>Totally Rocking Technologies Ltd.</i><ul style="list-style-type: none">◦ Engineered a native Android module to synchronize live layout previews with a custom debugger view, enabling real-time inspection of custom views through XML attribute parsing◦ Improved drawable efficiency by replacing redundant assets with attribute-driven rendering via custom Wallpaper and Drawable classes• Event Application – <i>Totally Rocking Technologies Ltd.</i><ul style="list-style-type: none">◦ Designed and integrated an in-house AI engine to dynamically personalize user events◦ Developed custom RecyclerView and ScrollView components from scratch, tailored to non-standard UI/UX requirements—totaling over 15,000 lines of production-grade code◦ Utilized multithreaded processing and GPU-accelerated computation for low-latency interaction• Maintenance Reporting Tool – <i>Olam Grains</i><ul style="list-style-type: none">◦ Developed an Android-based digital reporting system for equipment maintenance, significantly reducing downtime from manual entry◦ Enabled cross-departmental adoption through an intuitive UI and streamlined form generation
Technical Skills	<ul style="list-style-type: none">• Languages: Java, Kotlin, Python, C++, C#, Swift, HTML, JavaScript, XML, VBA• Frameworks & Tools: CUDA, TensorFlow (Java), Deeplearning4j, Android SDK, Xcode, Raspberry Pi, Arduino, Firebase, SQLite, MySQL, Git• Core Expertise: Concurrent & Embedded Systems Programming, Neural Networks, GPU Computing, Custom Android Views, API Integration, Data Compression Techniques, Real-time Signal Processing, Low-Level Optimization• Design & Visualization: CorelDRAW, Figma, Blender (3D Modeling)
Service, Honors & Recognitions	<ul style="list-style-type: none">• National Youth Service Corps (NYSC) – Earned Discharge Certificate (2022) in service to the Federal Republic of Nigeria.• Top Contributor – Offering expert insights and solutions in STEM fields on StackExchange (3D Printing, Blender, Physics, Mathematics, StackOverflow)• Copyright Holder – Mobile Tag Recognition System (NCC Reg. No. LW6659)• Digitization Lead – <i>Laws of the Federal Republic of Nigeria</i>, Funmi Quadri & Co• Open Source Projects – Developed multiple Android UI libraries, including, TwerkyListView and BubblingImageView, spotlighted for innovative UI on <i>They Make Design</i>. Also contributed to <i>TornadoVM</i>, a Java acceleration framework leveraging GPUs and FPGAs for heterogeneous execution
Languages	Yoruba, English
Pursuits	Hobbies – Chess, Art Interests – Music, Basketball, Football