

Jackson Sixtus Abetianbe

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Portfolio: [jaeylo-website-portfolio.vercel.app](#) | Trex Media: [trex-media.vercel.app](#) | AURA: [aura-01.vercel.app](#)

PROFILE

Mechatronics Engineering student and multidisciplinary builder working across AI, embedded systems, full-stack software, data, robotics, and creative technology. Founder of Trex Media and creator of AURA, with experience shipping real-world systems, mentoring 12+ students, leading robotics teams, training hackathon builders, and presenting technical work to large audiences.

ENGINEERING & PROFESSIONAL EXPERIENCE

Cowrywise Campus Ambassador Mar 2026 – Present

- Host financial literacy and technology sessions, create educational content, lead peer outreach, and build grassroots student engagement.

Founder & Full-Stack Developer — Trex Media Nigeria May 2024 – Present

- Founded and built a student-led media/technology venture; own product development, web engineering, editing, publishing, audience growth, and student contributor onboarding.
- Develop responsive web experiences using React, Tailwind CSS, Node.js, and Express, combining software, video production, graphic design, and digital media from concept to delivery.

Data Science Trainee — Aptech Nigeria 2025

- Trained in data cleaning, analysis, visualization, SQL, and introductory ML with Python, pandas, NumPy, and scikit-learn; applied spreadsheet and dashboard techniques to communicate insights.

SELECTED PROJECTS

AURA — IoT / Embedded / Full-Stack / Blockchain 2025 – Present

- Built with AI-assisted engineering workflows (including Claude/Claude Code) across firmware, backend architecture, frontend implementation, debugging, auditing, test generation, and rapid iteration.
- Architected ESP32/MQTT, Node.js/TypeScript, Socket.io, Supabase/PostgreSQL, Next.js, and blockchain layers; implemented surge detection + automatic cutoff, alerts, presence detection, voice commands, device identity, and auditable reporting.
- Added unit, integration, and property-based testing with Jest/fast-check; integrated Solana, Lisk, and Metaplex for device identity and verification.

CarnivalXperience — Full-Stack / AI / Safety / Tourism 2026

- Built a Carnival Calabar platform with Next.js/React, TypeScript, Supabase/PostgreSQL, Leaflet/OpenStreetMap, Paystack, and OpenAI; added events, accommodation, maps, emergency contacts, location sharing, incident reporting, family safety features, and an AI concierge.

FGC Ikrom Alumni Association — Full-Stack / Production Web 2026

- Built a production-oriented alumni platform with 20+ routes, authentication, admin workflows, forms, CMS integration, and validation; used Zod, TanStack Query, Playwright, Testing Library, MSW, Husky, and lint-staged.

LEADERSHIP, ROBOTICS & ACHIEVEMENTS

- Hack4FUTO 5.0 — Building in Public Track Winner: presented AURA to 1,000+ attendees, judges, mentors, and developers.
- Mentored 12+ students across AI adoption, robotics, Scratch, engineering fundamentals, and team building; trained fellow Hack4FUTO competitors in coding, AI integration, blockchain, and product management.
- FTC Team Captain Award; FTC Innovation Award (2023); Robot Design Award (2024); FLL National 4th Runner Up; national/international robotics competition experience.
- Speaker, Tech Conference Calabar 2025 — presented on AI, robotics, blockchain, and emerging technologies; Former Deputy Senior Prefect; volunteer with Nessaposh Charity Foundation & Stitching Hearts Organisation.
- Going for Gold — Content Creation Challenge Winner (2026).

TECHNICAL SKILLS

AI: Claude, Claude Code, Claude API, OpenAI API, prompt engineering, LLM integration, AI safety / responsible AI
Software: JavaScript, TypeScript, Python, SQL, C, React, Next.js, Node.js, Express, Django, Tailwind CSS, Socket.io
Data: pandas, NumPy, scikit-learn, Excel | Databases/Cloud: PostgreSQL, MySQL, MongoDB, Supabase
Embedded/Systems: ESP32, Arduino, Raspberry Pi, MQTT, sensors, circuit design | Blockchain: Solana, Lisk, Metaplex, wallet auth
Testing/Tools: Jest, Playwright, Testing Library, MSW, fast-check, Zod, TanStack Query, Git/GitHub, Docker, Figma, VS Code
Creative: DaVinci Resolve, Premiere Pro, After Effects, CapCut, cinematography, graphic design

EDUCATION & CERTIFICATIONS

B.Eng. Mechatronics Engineering — Federal University of Technology, Owerri (FUTO) | 2025 – Present | Focus: automation, embedded systems, robotics, sustainable technology

WAEC — Federal Government College, Ikrom | Completed

Certifications: Anthropic Prompt Engineering • Anthropic API Fundamentals • DeepLearning.AI Building with Claude • Aptech Data Science Professional • Google Leadership with Generative AI

COMMUNITY

JCI • FUTO RISE Sustainable Energy & Green Technology Cluster • IEEE • Data Science Nigeria • Hack Club • Lucas Ziegler Robotics Club • campus/community ambassador roles