

Alainengiya George Junior

AI · Backend · Smart Contract Engineer

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SUMMARY

Software engineer with a background in Mechatronics Engineering specialising in backend infrastructure, secure smart contracts, and AI agents. Deep experience in the Sui/Move ecosystem, contributing open-source tooling, shipping production dApps, and educating the next generation of African blockchain engineers through workshops, YouTube tutorials, and developer-relations advocacy.

WORK EXPERIENCE

Product & Infrastructure Engineer · Team Sushi 2025

- Leading product and infrastructure engineering for three ecosystem products: Move Runner (VS Code extension for Sui Move), Payfrica (all-in-one digital asset toolkit for Africa), and WalHost (censorship-resistant web hosting on Sui + Walrus).
- Architected NestJS/Next.js backend systems for Payfrica including Google OAuth → Ika dWallet zero-trust key management, enabling users to transact without ever managing private keys.
- Shipped Sui Move Runner, a VS Code extension with one-click package creation, smart build, integrated testing, wallet management, and network switching, improving developer onboarding time.

Developer Relations Advocate · Sui On Campus (Sui Foundation) 2025

- Representing Sui Foundation across Nigerian universities, running hands-on workshops in the Move programming language and Sui blockchain development.
- Authored starter repository templates and code examples that accelerate developer onboarding and reduce time-to-first-deployment.
- Produced technical blog posts, video tutorials, and Discord community content driving ecosystem growth.
- Collaborated with Sui Foundation and ecosystem partners to surface developer pain points and ship targeted solutions.

Smart Contract Engineer · Voultron Games Jul 2025 – Feb 2026

- Developed and optimised high-performance gaming smart contracts on Sui in Move, implementing Sui VRF for provably fair outcomes.
- Architected a decentralised revenue-sharing system for the Voultron gaming ecosystem.

Open Source Contributor · Sui Network Ecosystem 2024

- Published Monban — a registry-based access control library for Sui Move (available on Move Registry/MVR) solving composability gaps in inter-package permission management.
- Published Sui String Formatter — a lightweight template and builder-style string formatting module for Move, filling a gap left by native stdlib.
- Wrote comprehensive technical documentation, code examples, and tutorials to increase ecosystem adoption and developer engagement, saving developers up to 30% of their time on common tasks.
- Active in code reviews, issue triage, and community discussions to continuously improve ecosystem tooling.

Tech Lead · SOCSC FUTMinna (Sui On Campus Chapter) 2024 – 2025

- Mentored 20+ student developers through workshops on smart contracts, dApp deployment, and Web3 UX, resulting in a 50% improvement in student project completion rates.
- Built open-source tools and YouTube content teaching Sui development, Move programming, and decentralised hosting, contributing to 15% growth in community engagement.
- Collaborated with design, backend, and community teams to ship production-ready Web3 products under tight deadlines, reducing time-to-market by 20%.
- Integrated blockchain security best practices using Sui's object model, event emissions, and access control patterns.

AI/ML Freelancer · Fiverr 2023 – 2024

- Delivered custom AI and ML solutions achieving a 95% client satisfaction rate and 4.9/5 average rating.
- Developed and deployed ML models for predictive analytics and automation using TensorFlow, PyTorch, and scikit-learn.
- Built end-to-end pipelines covering data preprocessing, feature engineering, model training, validation, and deployment.
- Created automated systems for image recognition and NLP tasks, enhancing operational efficiency for clients globally.

Forex Trading Bot Developer · Freelance 2022 – 2024

- Designed and deployed automated algorithmic trading bots implementing market analysis and signal-generation strategies.

NOTABLE PROJECTS

Payfrica | Sui · NestJS · Next.js · Ika dWallet

- All-in-one digital asset toolkit for Africa: P2P trading, instant payments, and Payfrica Bridge Lite for digital-asset to local bank conversion. Integrates zero-trust key management via Ika network dWallet so users never manage private keys.

Sui Move Runner | VS Code Extension · TypeScript · Move

- VS Code extension streamlining Sui Move development: one-click package creation, smart build system, integrated testing, wallet management, and network switching with cross-platform support.

Monban | Move · Sui · MVR

- Registry-based access control library for Sui Move, published on Move Registry. Enables runtime whitelisting of external packages via dynamic AccessRegistry, solving composability gaps in inter-package permission management.

CloseBug | NestJS · Next.js · BullMQ · Semgrep · Claude API

- Automated AI-powered security review platform for AI-native development on the Sui stack. Covers SAST, dependency audits, IaC, smart contract (Move/Solidity) analysis, and AI-specific risk detection with Slack/PagerDuty alerting.

Consilium | Stellar · x402 · Soroban · AI Agents

- Decentralised AI agent trading protocol built for Stellar Hacks: Agents. Uses x402 micropayments and MPP on Stellar with Soroban smart contracts for agent-to-agent value exchange.

KampuzHub | Next.js · NestJS · PostgreSQL

- Student-verified campus marketplace for African university students. Live demo at kampuzhub-demo.vercel.app.

HACKATHONS & AWARDS

- ■ 1st Place (\$3,000) Sui on Campus Hackafest, Lagos 2024 — Payfrica: All-in-one digital asset toolkit for Africa. Focused on cross-border payments and mobile accessibility using Sui.
- ■ 1st Place (\$1,000) Sui on Campus Bounty Challenge 2024 — EduXverse: 3D gamified learning platform on Sui with Move smart contracts rewarding student progress.

EDUCATION

B.Eng Mechatronics Engineering · Federal University of Technology, Minna

2020 – Oct 2025

- Research focus on computer vision and ML applications in robotics (OpenCV, TensorFlow).

SKILLS & TECHNOLOGIES

Smart Contracts	Move (Sui), Solidity: object model, VRF, access control, event emissions, MVR publishing
Backend	NestJS, Node.js, Express, FastAPI, Flask: microservices, REST APIs, BullMQ job queues
Frontend	Next.js 15, React, TypeScript/JavaScript
AI / ML	TensorFlow, PyTorch, scikit-learn, LangChain, OpenCV, MediaPipe, NLTK, Pandas
Infrastructure	Docker, Railway, Render, AWS, Vercel, Caddy, Railpack
Databases	PostgreSQL, MongoDB, MySQL, Redis
Security	Semgrep SAST, dependency auditing, IaC scanning, AI risk detection
Languages	TypeScript / JavaScript, Python, Move, Rust, Solidity, C++
DevRel	Technical documentation, Docusaurus, Swagger, YouTube tutorials, workshops
Other	Git, GitHub Actions, Telegram Bot API, Sui SDK (Mysten), Walrus

WRITING & CONTENT

- "The Science of Digital Trust": encryption, hashing, digital signatures, and modern cybersecurity threats. Medium.
- "Refresh Token Rotation Done Right": protecting backends from token theft. Medium.
- "Understanding zkLogin with Enoki": technical deep dive into passwordless Web3 authentication. Medium.
- YouTube channel (@blockchainbard_ai): video tutorials on Sui, Move smart contracts, and Web3 development.

INTERESTS

International Travel · Table Tennis · Reading · Gaming · Robotics & Automation · Technical Writing · Mentoring