Marvellous Ogunode

Software Engineer

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About Me

I’m a software engineer specializing in building scalable, user-centric applications and systems. Over the past 3 years, I've focused heavily on core tech stack around web, blockchain, infrastructure, and AI. I love bridging the gap between complex code logic and smooth real world experiences. I have experience in building production-grade solutions, implementing novel mechanisms, and conducting research. I also love to work with people on projects and help people get moving with their tech journey easily.

Skills

Blockchain Development

- Smart contracts with Solidity, Rust, Clarity, Move, and Python.
- ZK projects with Noir and Circom
- Parachains with Substrate Sdk
- Blockchain Protocol and Infrastructure with Rust

Fullstack Development

- Javascript, Python, SQL, MongoDB, C, C++, Java
- ReactJS, NodeJS, and FastAPI Frameworks
- AWS, AZURE, and GCP
- Git, Linux, Docker, and CI/CD

AI and Machine Learning

- Python, FastAPI, Flask
- HugginFace Spaces
- Deep Learning Development and Research - Neural networks, Transformers, etc.
- Langgraph, Agents
- Pytorch, Tensorflow, Scikit-learn
- Data Analysis, Quantisation, Model Training
- Statistics and Mathematic, General Research, Security(Web, AI, and Blockchain)

PROFESSIONAL EXPERIENCE

1. **Blockchain Developer Intern, Web3Nova, Nigeria**

   March 2025 - December 2025

   - Worked on payment solutions using FIAT and stablecoins
   - Worked on smart contracts and open source web3 protocols like ethereum and polkadot
   - Integrated web3 smart contracts, AI, and protocols into web applications

   Backend Instructor, Web3Nova, NIgeria

   January 2026 - April 2026

   - Mentored and taught courses on backend engineering
   - Centered courses around system design, reliability, fault tolerance, and AI integrations
   - Worked on projects focused on blockchain integration in backend systems
2. **Full Stack Developer Intern, CodeAlpha Lucknow, India**

February 2025 - March 2025

- Developed and deployed a full-stack social media application.
- Built a functional video conferencing application.
- Gained hands-on experience in full-stack development through real-world project implementation.

3. **Frontend Developer**, **Brain Bench Technology Ado Ekiti, Nigeria**

   October 2024 - January 2025

   - Developed and optimized landing pages for food businesses.
   - Created the frontend application for a Web3-based X and O game.

4. **Founder, AviraX Tech, Akure, Nigeria**

   January 2025 - April 2026

   - Taught and mentored 50 individuals, guiding them through their journey into tech.
   - Collaborated on mini-projects with students to teach effective problem-solving processes in software engineering.

PROJECTS

1. **Advanced Fraud Identification System for Pan-African Financial Institutions:** Developed a real-time, AI-driven trust-scoring and fraud detection engine integrated with payment backends. This system utilizes a Hybrid Temporal Graph Transformer (TGT) architecture, leveraging an ensemble of five distinct deep learning models to identify, evaluate, and block fraudulent activity prior to settlement.
2. **Decentralized medical records parachain**: Architected a specialized Polkadot-based parachain to facilitate secure, privacy-centric storage and management of healthcare data. Developed using the Substrate framework, the protocol integrates zero-knowledge proofs and biometric authentication with ledger immutability to maintain strict patient confidentiality alongside seamless data availability.
3. **PolkaPulse**: A decentralized Yield-as-a-Service (YaaS) protocol leveraging PVM smart contracts, XCM v5, and Agile Coretime to execute an autonomous, atomic yield loop that harvests DOT staking rewards on the Asset Hub, teleports them trustlessly across parachains via XCM, and deploys them into high-yield DeFi vaults in a single logic flow.
4. **PortableID** is a specialized interoperability protocol designed to bridge identity, not assets. It allows organizations to issue Verifiable Credentials (VCs) on a secure Polkadot Parachain (the Hub) and enables users to prove those credentials on heterogeneous blockchains (the Spokes) without revealing sensitive data, using Zero-Knowledge Proofs (ZKPs).
5. **Decentralized Energy Trading Platform with AI-Powered Renewable Energy Forecasting**: A blockchain-based peer-to-peer energy trading platform that uses machine learning to predict renewable energy generation and optimize decentralized energy markets. Built with PyTorch for ML forecasting and Solidity for smart contract automation.
6. **AladdinNet**: An institutional-grade Real-World Asset (RWA) tokenization and automated risk engine leveraging ERC-4626 yield-bearing vaults, on-chain event subgraphs, and a localized RAG-driven LLM agent to execute autonomous, cross-asset macro stress testing, monitor liquidity pools in real time, and programmatically adjust portfolio risk parameters within a single unified infrastructure.

EDUCATION

1. Bachelor of Technology in Computer Science, Federal University of Technology, Akure (FUTA). 2024 - 2028

   Relevant Course Work: Data Structures and Algorithms, Object Oriented Programming, Operations Research, System analysis and design, LInear Algebra.

CERTIFICATIONS

- Blockchain Developer — Hedera
- SUI Founder - Eccentric Labs
- Blockchain Developer — Web3Nova
- Full Stack Developer — CodeAlpha
- Frontend Developer — Brain Bench Technologies