

Akor, George Chidera

Graduate Student Researcher, Software Engineer, Writer

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ADD LINK TO PERSONAL WEBSITE

EDUCATION

Kumoh National Institute of Technology, Gumi-si, South Korea — (MSc).

OCTOBER 2024 - PRESENT

I am pursuing a research-based Masters degree in IT Convergence at the Kumoh National Institute of Technology (KIT). My graduate research has been focused on artificial intelligence and blockchain for automated and trustless smart contract auditing.

Federal University of Technology, Owerri, Nigeria — B.Eng

NOVEMBER 2016 - JUNE 2023

I graduated with a Bachelor of Engineering (Second Class Honours, Upper Division) from the Department of Electrical and Electronic Engineering (EEE). While I majored in Electronics and Computing, I completed coursework in power, software, and communications as part of my degree. During my time here, I served as the Team Secretary for Enactus FUTO (2021-2022) and as the Secretary-General for the Society of Electrical and Electronic Engineering Students (SEEEES) from 2019 to 2021.

Rose Valley High School, Lagos, Nigeria — WASSCE/SSCE

SEPTEMBER 2010 - JULY 2016

I made nine distinctions in the nine subjects I sat for in the West African Senior School Certificate Examination for School Candidates. During my study here, I served as Literary and Debating Society President (2016), Time Prefect (2014-2015), and Senior Prefect (Male, 2016).

EXPERIENCE

Software Engineer. Remote — Freelance.

OCTOBER 2021 - PRESENT

Applied engineering expertise and research methodologies to develop and deploy production-grade software solutions across web, blockchain, and data science domains for enterprise use cases.

- **Enterprise Web Development:** Designed and deployed full-stack, scalable web applications using Next.js (App Router/Server Components), React, TypeScript, and Tailwind CSS. Focused on

AWARDS

Federal Scholarship Board (Nigeria): Federal Government Scholar (FSB), 2018

PROJECTS

Enterprise Multi-Tenant Analytics Platform (Web App). — [Explore Project](#)

Architected and deployed a multi-tenant enterprise analytics dashboard using Next.js and React, leveraging Server Components for optimized data fetching and performance. This involved building a secure, scalable Node.js/Express backend with a robust Role-Based Access Control (RBAC) layer on a PostgreSQL database, ensuring strict data segregation and integrity for diverse business units and achieving high availability through advanced caching strategies and query optimization.

Upgradable DeFi Vault with Auditable CI/CD (Smart Contract). — [Explore Project](#)

Engineered an upgradable ERC-4626-compliant yield

implementing robust REST/GraphQL APIs with Node.js/Express or Python/Django and designing secure PostgreSQL/MongoDB database schemas for high-availability production environments.

- **Smart Contract Engineering:** Authored, audited, tested, and deployed secure smart contracts on the EVM using **Solidity**, leveraging **Foundry** and **Hardhat** for a robust, enterprise-grade development and CI/CD workflow. Utilized common tools like **Ethers.js/Web3.js** for integration and **Slither** for static analysis and security auditing.
- **Machine Learning Operations (MLOps):** Built **end-to-end MLOps pipelines** for model lifecycle management, utilizing **PyTorch/TensorFlow/Jax** for building/training. Focused on deployment, monitoring, and debugging in production using mainstream tools like **MLflow** for tracking and **Docker/Kubernetes** for containerization and orchestration.
- **Intelligent Automation:** Developed advanced automation workflows, including the creation of **LLM agents** using frameworks like **LangChain** and **LlamaIndex**. Implemented complex, multi-step task execution by integrating agents with internal enterprise APIs and common cloud automation platforms (**AWS Step Functions** and **Azure Logic Apps**).

Writer, Remote — Freelance.

OCTOBER 2024 - PRESENT

I have helped clients prepare and proofread documentation, technical reports, and papers on diverse areas of software engineering. I also maintain a blog on Medium, writing on software engineering and my MSc research.

Networked Systems Laboratory (NSL). Gumi-si, South Korea — Graduate Student Researcher (MSc).

OCTOBER 2024 - PRESENT

Worked on multiple technologies: Purechain Blockchain, Purewallet offline transaction functionality for Bitcoin, and BridgeSync. Doing my graduate research on automated and trustless smart contract auditing.

Huawei Technologies Nigeria Co., Ltd., Lagos, Nigeria — Service Solutions Engineering Graduate Intern (NYSC).

DECEMBER 2023 - OCTOBER 2024

Provided technical support for Huawei's telecommunication services to customers, maintaining strong client relationships through timely service. Assisted in managing and executing service projects, ensuring on-time delivery. Prepared detailed technical documentation and participated in training sessions to stay updated with the latest technologies, and conducted knowledge-sharing sessions with team members.

vault in **Solidity**, utilizing the **UUPS proxy pattern** to guarantee future contract flexibility and mitigate deployment risk. The entire contract lifecycle was managed through an enterprise-grade workflow using **Foundry** for comprehensive unit and invariant testing, with mandatory integration of **Slither** static analysis into the CI/CD pipeline, ensuring zero critical vulnerabilities and optimal gas efficiency through meticulous code auditing.

LLM-Powered Customer Support Automation Agent (ML/Automation). — [Explore Project](#)

Developed and deployed an autonomous LLM agent using **LangChain** and **PyTorch/TensorFlow** models, designed to handle complex, multi-step Tier-1 support requests and reduce manual overhead. This required building **end-to-end MLOps pipelines** (leveraging tools like **MLflow** and **Docker/Kubernetes**), implementing **Retrieval-Augmented Generation (RAG)** for enterprise knowledge lookup, and integrating the agent with external APIs under strict logging and **guardrail mechanisms** to ensure safe and auditable action in a production environment.

Slot Nigeria, Lagos, Nigeria — Trainee Engineer

MAY 2021 - AUGUST 2021

I enrolled in Slot Academy as a Trainee engineer. Throughout my stay, I received practical instruction in the repair and restoration of smartphones.

Internhub, Owerri, Nigeria — Intern

August 2018 - October 2018

I learned the fundamentals of Java programming for Android. As part of my training, I wrote and tested code for small-scale apps, learned about object-oriented design and completed work assigned by my instructor on Android architectural components.

Prime Media Tech, Lagos, Nigeria — Trainee Intern

August 2017 - October 2017

As an intern, I underwent training in the fundamentals of frontend web development. I built replicas of popular sites in HTML, CSS, JavaScript, and React.js.