Joseph Anyaegbunam software | blockchain developer

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Profile

Blockchain-focused Software Developer with an MSc (Distinction) in Information Technology and strong expertise in building decentralized applications and scalable full-stack platforms. Proficient in Solidity, smart contract architecture, gas optimization, and advanced blockchain patterns (ERC20/721/1155, proxy, diamond). Skilled with Foundry for testing and deployment. Also experienced in Python and React, delivering secure, user-focused solutions rooted in a deep belief in the potential of Web3.

Education

2022 - 2023 Masters / Information Technology

Aberdeen, UK Robert Gordon University

• Grade: Distinction

 Key Coursework: Data Visualization and Analysis, Object-Oriented Programming, Software Project Engineering, Data Management, User-Centered Design, Cyber Security.

Securit

2006 - 2011 BSc. / Electrical Electronics Engineering

Okada, Nigeria Igbinedion University

Skills

Languages Web Development

Python, JavaScript, TypeScript, Solidity, SQL, Java, C React, Next.js, Vue, Django, FastAPI, Node.js, Redux,

Figma

Blockchain

Smart Contracts, Foundry, Hardhat, DApps, ethers.js

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Data Analytics & AI

pandas, NumPy, MatPlotlib, Seaborn, Scikit-learn,

LangChain, GenAI

Databases & Infrastructure

PostgreSQL, MongoDB, Docker, Git

Professional Experience

2024/09 - 2025/03

Full Stack Developer (Volunteer)

Lagos, Nigeria

Livingstone Off-the-Street Initiative

Led end-to-end development of NGO's comprehensive platform to support at-risk youth programs.

- Developed comprehensive admin dashboard using Next.js and Prisma ORM for managing beneficiaries, programs, schools, and donations
- Built public-facing website enabling volunteer registration, donor contributions, and program information sharing
- Architected scalable database schema and RESTful API with role-based access control and program tracking features
- Implemented automated reporting tools and payment gateway integration for seamless donation processing
- Created digital storytelling platform to showcase success stories and increase community engagement

2010/03 - 2010/09

Abuja, Nigeria

Network Support Engineer (Intern)

- Installed and configured wireless antennas at client sites, optimizing alignment to nearby masts
- Provided technical support and resolved connectivity issues for residential users
- Assisted with routine mast maintenance and switch/router configuration

2012/03 - 2013/02 Lagos, Nigeria Mathematics Teacher (NYSC)

Araromi Ilogbo Secondary School

Projects

2025/07

Smart Lottery Contract System 🖸

Decentralized, provably fair lottery system with verifiable randomness and automated draws

- Implemented Chainlink VRF v2.5 for cryptographically secure random winner selection
- Integrated Chainlink Automation for autonomous lottery draws based on time intervals
- Developed comprehensive testing suite
- Deployed and verified on Sepolia testnet with gas-optimized smart contracts

2025/06

Diamond Storage Subscription Proxy

Upgradeable subscription system using diamond storage patterns and proxy architecture Tech: Solidity, Foundry, Proxy Patterns, OpenZeppelin

- Implemented custom proxy pattern with diamond storage for gas-efficient state management
- Built subscription management with pause/resume and withdrawal refund features
- Created comprehensive test suite with fuzz testing and upgrade state validation

2024/12

Learning Management System 2

A full-featured platform for creating, managing, and delivering online courses.

Technologies: Next.js, TypeScript, Prisma, PostgreSQL, Tailwind CSS, Mux

- Designed and implemented course creation, video upload/streaming, and progress tracking
- Developed user authentication, role management, and a responsive UI for instructors and learners
- Integrated Mux for seamless video delivery and optimized frontend with Tailwind

2025/02

Crowdfunding Decentralized Application 🖸

A full-stack dApp for creating and managing crowdfunding campaigns on the Ethereum blockchain, enabling secure and transparent fundraising without intermediaries.

Technologies: Next.js, TypeScript, Solidity, Tailwind CSS, IPFS, MetaMask, React Hook Form

- Implemented gas-optimized smart contracts for campaign creation, flexible withdrawals, and donor verification.
- Built a responsive multi-step campaign form with validation and decentralized image storage using IPFS
- Created a user dashboard with campaign tracking and management features

2023/08

My MSc. Final Project: DiscussU

A collaborative platform enabling students to engage in structured academic discussions and knowledge sharing, demonstrated as my MSc. project.

Technologies: Django, Django Rest Framework, React, Bootstrap, Zustand, Knox

- Built interactive discussion rooms with topic-based threads and real-time participation
- Implemented RESTful APIs for discussions, notifications, and user profiles
- Added content moderation, follower functionality, and personalized discussion tracking