

VICTOR OKOLIE

Backend & Web3 Developer

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SUMMARY

I build backend and Web3 systems that connect users, tokens and data, securely, efficiently and at scale. From smart contracts to fullstack APIs, I care about clean logic, real usage and thoughtful execution.

PROFESSIONAL EXPERIENCE

Backend Developer, *Freelance*

12/2021 – Present

Remote

- Engineered modular backend systems for content platforms, e-commerce, gaming web apps, and e-learning products using Python, Django, and PostgreSQL
- Designed and secured high-traffic APIs with JWT and OAuth (Google/GitHub), supporting concurrent multi-user access
- Built, tested, and deployed RESTful APIs for task workflows, content delivery, and checkout logic
- Improved performance and scalability through optimized database queries, DRY patterns, and caching strategies
- Implemented asynchronous processing for background tasks using queues to handle load spikes and long-running jobs
- Added basic observability with structured logging and error monitoring to track system health and diagnose issues

Backend Developer Intern, *Genesys Tech Hub (Learnable)*

09/2025 – 12/2025

On-site

- Contributed as a Backend Developer to Ventree, a digital bookkeeping platform enabling MSMEs to record sales, manage stock, track expenses, and monitor profit in one application
- Designed and implemented RESTful APIs using TypeScript, Node.js, and Express, focusing on reliability, data integrity, and scalable backend workflows
- Built backend logic and data models to accurately handle financial records, inventory data, and transactional summaries
- Implemented role-based access control for owners, managers, and staff, ensuring secure and permissioned multi-user access
- Collaborated with frontend and product contributors to align backend behavior with real MSME workflows and business requirements
- Optimized API performance and database interactions to maintain consistent responsiveness under concurrent usage

Web3 Developer Intern, *Genesys Tech Hub (Learnable)*

12/2024 – 12/2025

Hybrid

- Developed and deployed production-grade smart contracts (ERC-20, ERC-721) using Solidity, OpenZeppelin, and Hardhat for real-world Web3 applications
- Designed and deployed ERC-20 token contracts, implementing wallet-based authentication, token minting, transfers, and on-chain interactions using Web3.js and Ethers.js
- Built and deployed ERC-721 NFT collections with decentralized metadata storage on IPFS, ensuring compliance with NFT standards and long-term data integrity

- Deployed and tested token and NFT contracts on Base Sepolia, enabling marketplace interaction and visibility via OpenSea testnet • Contributed to KYC-enabled smart contract workflows and conducted security-focused contract reviews to reduce on-chain risk
- Collaborated across multiple Web3 teams, aligning backend services, smart contracts, and frontend logic within structured 3–4 week agile sprint cycles to deliver production-ready features

Frontend Developer, *Freelance*

11/2021 – 05/2024

Remote

- Built responsive UI components and dynamic frontends using HTML, Bootstrap, and JavaScript
- Integrated frontend with REST APIs, enhancing user interaction across 5+ fullstack applications
- Optimized UI performance and mobile responsiveness with clean CSS and device testing

PROJECTS

Ventree - Simplified Bookkeeping for MSMEs [🔗](#),

11/2025 – 12/2025

Backend Developer | Collaborative startup

Ventree is a simplified digital bookkeeping platform for small and medium-sized businesses, designed to manage sales, inventory, expenses, and profit tracking in one centralized system.

- Built and maintained backend services powering core bookkeeping workflows, with a focus on reliability, data integrity, and scalable backend design
- Designed and implemented RESTful APIs using TypeScript, Node.js, and Express to handle business data operations and user interactions
- Developed core business logic and data models to accurately manage financial records, inventory updates, and transactional summaries
- Implemented secure authentication and role-based access control for business owners, managers, and staff
- Optimized API performance and database interactions to support consistent usage and long-term maintainability

Gbese - Decentralized Debt Settlement Platform [🔗](#),

04/2025 – 05/2025

Web3 Developer | Collaborative Project

Gbese is a revolutionary peer-to-peer credit transfer platform that enables users to redistribute financial obligations through consent-based debt transfers. It's designed for people to share or relieve debts in a fair, friendly, and legally sound way.

- Led the blockchain-side development of a fintech dApp that supports token-based debt repayment and NFT rewards
- Developed and deployed the GBT token (ERC-20) and GbeseNFT (ERC-721) contracts, enabling 100+ wallet interactions in testing
- Built a modular KYC Verifier contract to support wallet verification and future smart contract upgrades without redeployment
- Integrated MetaMask functionality for wallet connection, token tracking (wallet_watchAsset), and NFT minting
- Deployed over 30 NFT assets and metadata to IPFS, dynamically linked using tokenURI
- Designed a real-time reward dashboard using Ethers.js to listen for contract events and display user-minted NFTs
- Improved transaction reliability by 40% through testnet optimization and iterative smart contract reviews

Project Links: [[Github\(GbeseNFT](#) , [GbeseToken](#) , [GbeseKYC](#) , [Gbese Web app](#)), [Website](#)]

Quest Coding - Software Development & Web Solutions Platform ,

06/2023 – 08/2024

Fullstack Developer | Personal Project

Quest Coding is a software development brand focused on building modern websites, web applications, and backend systems for businesses, creators, and startups.

- Built a full-stack platform with distinct modules for web development services, a technical blog, and a newsletter system
- Designed and implemented 25+ backend endpoints to support article publishing, user authentication, and checkout workflows
- Integrated Google and GitHub OAuth authentication, improving onboarding flow and increasing user registrations by ~40%
- Supported early product validation by handling content delivery and user interactions during the soft launch phase
- Achieved 150+ combined visits during initial launch by implementing on-page SEO, optimizing keywords, meta tags, and content structure to boost organic traffic and validate interest in the platform

Slize Link - Next-Gen URL Shortening & Link Management Platform ,

09/2023 – 10/2025

Fullstack Developer | Personal Project

Slize is a creator-oriented link shortening solution that turns every link into a sleek, branded, and trackable gateway, engaging audiences across platforms and helping creators share their content in style.

- Built scalable backend logic to generate, store, and redirect shortened URLs efficiently, supporting custom branded links and high-concurrency traffic
- Designed and implemented real-time analytics pipelines to track clicks, referrers, devices, and geographic data, surfacing actionable insights for users
- Developed a responsive dashboard and link-in-bio management features, enabling creators to centralize content and monitor engagement across platforms
- Integrated QR code generation and offline-to-online tracking, bridging physical campaigns with digital interactions
- Applied SEO best practices, metadata optimization, and performance tuning to boost organic discoverability and early user adoption
- Engineered advanced engagement metrics including heatmaps and top-click analysis, informing creators' content strategy and decision-making

EDUCATION

B.Sc. Computer Science, *Enugu State University of Science and Technology (ESUT)*

09/2019 – 08/2023
Enugu, Nigeria

SKILLS

Web3 & Blockchain

Solidity, Hardhat, Web3.js, Ethers.js, OpenZeppelin, MetaMask Integration, IPFS, Token Standards (ERC-20, ERC-721)

Frontend & Integration

HTML, CSS, JavaScript, Bootstrap, jQuery, React

Soft Skills

Team Collaboration Critical Thinking Documentation
Code Reviews. Rapid Learning. Communication

Backend Development

Python, Typescript, javascript, Go, Django, Django REST Framework, Node.js, Express.js, OAuth, JWT, PostgreSQL, Redis, Celery, REST API Design, Session Management

DevOps & Tools

Git GitHub Docker DigitalOcean Railway, Python Anywhere, Cpanel, VS Code, Postman, Swagger

CERTIFICATES

Web3 Development Internship

Learnable (Genesys Tech Hub
2025)

Python Programming

Sololearn 2020