# THEOPHILUS UCHECHUKWU

## FULLSTACK SOFTWARE ENGINEER

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## PROFESSIONAL SUMMARY

Accomplished Full Stack Engineer with over 5 years of experience specializing in modern web technologies. Expertise spans backend development with Node.js (5+ years), C# and .NET (4+ years), Django, and NestJs (2+ years), complemented by strong frontend skills in React.js, Next.js (4+years), and Blazor WebAssembly. Proven track record delivering AI-powered platforms and complex systems leveraging microservices architecture with Docker, Kubernetes, and cloud technologies. Passionate about building scalable, resilient applications that deliver exceptional user experiences.

## WORK HISTORY

**Fullstack Software Engineer**, 06/2024 - Current
**HITOAI | REMOTE (Ireland)** - Ireland

- Building **EEP (Expert Education Platform)** — a collaborative, AI-powered project-based learning platform for developers, integrating expert mentorship and real-time AI guidance. Developed using **Firebase, GCP, Node.js, NextJs, Typescript, etc.**, it features a **robust admin dashboard**, real-time collaboration tools, chat, and structured **workspace management** for learners and businesses alike.

- Built **HyQ**, an AI-driven gas quality monitoring platform delivering **real-time analytics, predictive insights**, and **sustainable energy optimization**. Integrated **IoT sensors, Next.js, and Django** to provide features like **calorific value monitoring**, **hydrogen blend analysis**, **impurity detection**, and **automated compliance reporting** — securing **€123K funding** from **Gas Networks Ireland**.

- Built MVP of **SusNet**, an AI-enabled energy management platform offering intelligent insights and predictive analytics for greener living — awarded **€100K in funding** from **Startup Fund Ireland**.

- Developing **Selwell**, an AI-powered trading platform that connects with a trained trading bot, using Next.js 14 and Django REST with Flask API integration

- Building **Easmark**, an AI-powered educational platform that revolutionizes thesis grading and code assessment using Next.js, Django, TailwindCSS and PostgreSQL

- Engineered the HitoAI corporate website showcasing AI-powered educational solutions using Vite, React.js, TailwindCSS, Node.js and MongoDB

- Delivered the **Biasadra Website** for a leading AI Enterprise-Grade Academy connecting universities and businesses using Next.js and TailwindCSS

- Working on **AI4Energy**, a platform utilizing AI to help fuel stations optimize pricing strategies through market trend analysis and predictive analytics

**Blockchain Developer & Hackathon Champion,** 10/2024 – Current
**Various Web3 Hackathons | Remote / Global**

- Participated in and won **3 blockchain hackathons**, delivering innovative dApps across ecosystems including **Stacks**, **NEAR**, **Stellar**, **Sudocat**, and **MetaMask**. Recognized for both technical excellence and impactful solutions.

- Currently active in the **Stacks ecosystem**, building scalable, smart contract-enabled applications using **Clarity**, **Next.js**, and **PostgreSQL**, with a focus on user experience and decentralization.

- Developing in the **Hedera blockchain**, utilizing **Hedera Consensus Service** and **Smart Contract Service** to power decentralized governance, event ordering, and predictive analytics platforms.

- Proficient in **frontend (React, Next.js, TailwindCSS)** and **smart contract development**, effectively bridging blockchain logic with user-facing interfaces.

- Currently exploring **Rust** to enter the **Solana** and **Polkadot** ecosystems, expanding expertise into high-performance, low-latency blockchain systems.


**Backend Engineer**, 11/2023 - 12/2024
**ALX AFRICA** - Lagos , Nigeria
- Collaborated in a two-person backend team to develop the **ALX Connect API**, a developer matching platform connecting programmers based on skills and experience
- Co-architected and implemented a RESTful API using Django REST Framework with comprehensive Swagger documentation
- Designed and implemented secure authentication and authorization systems using JWT tokens
- Built real-time communication capabilities using WebSockets for instant notifications and messaging
- Implemented mentorship connection features, CV review functionality, and profile management capabilities
- Configured SMTP email services for system notifications, verification, and user communications


**ALX SOFTWARE ENGINEERING CERTIFICATION PROGRAM**, 05/2023 - 08/2024
**ALX_AFRICA** - Lagos, Nigeria
- **INVENTORY MANAGEMENT API**: Implemented robust inventory system with .NET 8 and Blazor server following Clean Architecture pattern with CQRS and MediatR, containerized with Docker and deployed to AWS EC2
- **DOCTOR APPOINTMENT WEB APP**: Developed a fullstack application with React, TailwindCSS and Node.js backend implementing role-based authentication with JWT
- **AIRBNB CLONE**: Created a fullstack web app with HTML, CSS, JavaScript, Python, Flask, SQLAlchemy and MySQL with comprehensive unit tests and monitoring

**Full Stack Software Developer**, 02/2020 - 04/2023

**FREELANCE & COLLABORATIVE PROJECTS** - Nigeria

- Developed API middleware solutions including NIBBS BVN validation and IBPS integration services using .NET 6 with cryptographic security implementation

- Created diverse client applications spanning financial services, real estate, tournament management, and educational platforms

- Modernized legacy systems to contemporary architectures while implementing authentication, third-party integrations, and performance analytics

- Provided technical mentorship and training, specializing in .NET ecosystem and web development technologies

**Full Stack Software Developer**, 10/2019 - 11/2020

**OCEAN OF EXCELLENCE COLLEGE** - Enugu, Nigeria

- Developed comprehensive school management system with JWT authentication and role-based access

- Created intuitive interfaces for student/staff data administration and interactive communication

- Integrated Stripe payment processing for online fee collection with user training support

**Full Stack Software Developer**, 08/2018 - 06/2019

**Benid Industries ltd** - Ikare, Ondo State

- Developed and launched a comprehensive e-commerce platform for beverage and alcohol sales with integrated shopping cart functionality and Stripe payment processing

- Implemented a custom CRM system to manage customer relationships, analyze purchase patterns, and streamline complaint handling procedures

- Established CAPA (Corrective and Preventive Actions) processes to ensure continuous service improvement and customer satisfaction

- Managed full project lifecycle from planning to execution, ensuring technical and financial targets were met

- Trained staff and customers on platform usage, resulting in successful adoption and increased sales

## EDUCATION

**Bachelor of Engineering**: ELectrical And Electronics Engineering, 11/2012 - 02/2018
**Federal University of Technology Owerri** - Nigeria - Second Class Upper

## SKILLS

**Programming Languages:**
- JavaScript/TypeScript, Python, C#, C

**Frontend:**
- React.js, Next.js, Blazor WebAssembly, TailwindCSS, Bootstrap, Shadcn-UI, WordPress

**Backend:**
- Node.js, .NET Core, Django, NestJs, Fast api,

**Database & Storage:**
- PostgreSQL, MongoDB, MySQL, SQL, Firebase, Redis

**DevOps & Cloud:**
- Docker, Kubernetes, AWS, Microservices, CI/CD, RabbitMQ, GRPC

**Tools & Others:**
- Git, GitHub, Jira, Trello, Postman, Swagger, JWT Authentication

**Professional Skills:**
- Problem-solving, Client relationship management, Technical communication, Team collaboration
- Agile methodologies, Requirements analysis, Project leadership, Continuous learning

## CERTIFICATIONS AND LICENSES

- ALX Certified Software Engineer (12-month bootcamp) | July 2024
- ALX Certified Data Scientist (in partnership with ExploreAI) | August 2024
- Google IT Support Certification (Coursera) | June 2024
- Google IT Automation with Python | October 2024
- Cisco Certified Network Associate (CCNA) | August 2024
- AI Careers Essential (ALX) | May 2024
- MTN Foundation Scholarship Award | December 2014