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# THEOPHILUS UCHECHUKWU

## FULLSTACK SOFTWARE ENGINEER

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### PROFESSIONAL SUMMARY

Accomplished Full Stack Engineer with over 6 years of experience specializing in modern web technologies. Expertise spans backend development with Node.js (6+ 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.

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### 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 **Firestore, 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 **5 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

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## EDUCATION

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

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## SKILLS

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### Programming Languages:

- JavaScript/TypeScript, Python, C#, C

### Frontend:

- React.js, Next.js, Blazor WebAssembly, TailwindCSS, Bootstrap, Shaden-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

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## CERTIFICATIONS AND LICENSES

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- 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