Theophilus Uchechukwu
(FullStack Engineer)

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Summary

I am a Full Stack Developer with a strong focus on backend development. With over 4 years of experience in C# and .Net, Django, and over 6 years in Node.js, and 2+ years with NestJs for backend development, I have honed my skills to deliver robust and efficient solutions. On the frontend, I bring 4+ years of expertise in React.js, Next.js, and Blazor webassembly, creating intuitive and dynamic user interfaces. Additionally, I possess substantial experience of over 1.5 years working with Docker, Kubernetes, and .NET microservices, enabling me to build scalable and resilient applications.

Experience

HITOAI   REMOTE (Ireland)

Fullstack software Engineer   Sept 2024 – Present

PROJECTS:

- Developed Selwell, a fullstack trading app connecting with a trained AI bot for automatic trading. Built with NextJS 14 and Django REST framework backend, integrated with a Flask API-powered trading bot. Successfully deployed the first phase for user review and iterations. The app helps financial institutions and fintech firms efficiently conduct stock and forex trades while consistently making profit.
- Created Easmark, an AI-powered platform helping educators grade thesis papers and code submissions faster, revolutionizing academic assessment while enhancing student engagement. Utilized NextJS, Django, TailwindCSS, Shadcn-UI, and PostgreSQL.
- Built the HitoAI corporate website showcasing AI-powered educational technology solutions that help institutions streamline assessment processes and improve learning outcomes. Implemented with Vite, ReactJS, TailwindCSS, Shadcn-UI, NodeJS, MongoDB, and Mongoose.
- Delivered the Biasadra Website for a leading AI Enterprise-Grade Academy connecting universities and businesses. The platform allows students to apply to partner universities or join the AI Academy for cutting-edge technology training. Developed using NextJS, Google Forms integration, Shadcn-UI, and TailwindCSS.
- Currently developing SusNet, an AI-enabled energy management platform offering intelligent insights, predictive analytics, and automation for smarter, greener living solutions. Building with Vite, React, TailwindCSS, and Django.
- Working on AI4Energy, a platform leveraging AI capabilities to help fuel stations optimize pricing strategies through predictive analytics, market trend analysis, and competitive intelligence, enabling increased profitability and competitive advantage. Implementing with Python, TensorFlow, React, NodeJS, AWS, MongoDB, and Docker.
- etc…

CBEX ST - Trading Platform   **REMOTE**

Lead IT and Tech Tutor   **2025 - Present**

RESPONSIBILITIES:

- Design and deliver comprehensive technical training programs that transform complete beginners into proficient tech professionals
- Create structured learning paths covering fundamentals through advanced concepts in programming, system architecture, and trading platform technology
- Conduct hands-on workshops and personalized mentoring sessions to accelerate student skill development
- Develop practical, project-based curriculum that builds real-world technical capabilities
- Track student progress and provide targeted interventions to overcome learning obstacles
- Implement innovative teaching methodologies that make complex technical concepts accessible to novices
- Maintain up-to-date course materials reflecting current industry practices and technologies

ALX _ Africa   **Backend Engineer (Contract)**

Backend software Engineer   **Nov 2024 - 2025**

PROJECT:

- Collaborated in a two-person backend team to develop the **ALX Connect API**, a sophisticated developer matching platform that connects programmers based on skills, experience, and learning goals
- Co-architected and implemented a RESTful API using Django REST Framework with comprehensive documentation via Swagger
- Designed and implemented secure authentication and authorization systems using JWT tokens
- Worked closely with the data science team who handled the AI-based matching algorithm to pair developers based on complementary skills and learning objectives
- Contributed to building real-time communication capabilities using WebSockets for instant notifications and messaging
- Helped develop mentorship connection features allowing experienced developers to connect with those seeking guidance
- Integrated CV review functionality to streamline the profile enhancement process
- Implemented profile management capabilities with flexible permission settings
- Configured SMTP email services for system notifications, verification, and user communications
- Assisted in deploying the solution on PythonAnywhere with SQLite database for initial testing and development phases
- Collaborated with frontend developers to ensure seamless integration with the user interface
- Participated in establishing API testing protocols to maintain high code quality and reliability

Freelance (Collaboration)   **Lagos**

Dotnet developer   April 2023 till data

PROJECTS:
- **BVN VALIDATION MIDDLEWARE**

- Developed and implemented middleware for the NIBBS API, facilitating seamless interaction between front-end applications and back-end services.
- Designed robust API endpoints to handle complex data retrieval and processing for BVN watchlisting, validation, and customer information retrieval.
- Managed authentication and authorization using secure token-based mechanisms to ensure compliance with security standards and protect sensitive user data.
- Integrated logging and monitoring capabilities to track API usage and performance, providing insights for optimization and debugging.

- **IBPS PCS Integration API**
    - Developed a middleware API using .NET 6.0 to integrate external systems with internal services for zone management, ID card validation, and logging, ensuring secure and efficient data handling.
    - Implemented cryptographic techniques for data security and designed RESTful services to manage zone requests and ID card information, optimizing system performance.
    - Built a structured logging system to monitor API usage and errors, enhancing maintainability and supporting seamless system integration across multiple services.

ALX SOFTWARE ENGINEERING CERTIFICATION PROGRAM   LAGOS STATE
Software Engineering Bootcamp   Nov 2023 – July 2024

PROJECTS:

- **INVENTORY MANAGEMENT API (final project)**
    - Implemented robust inventory management system with dotnet 8 and the interactive standalone blazor server
    - Implemented Clean Architecture pattern using CQRS and MediatR.
    - Containerised with docker and deployed to AWS EC2 instance.
    - Leveraged the power of bootstrap 5 and Syncfusion components to produce a user friendly and engaging UI.
    - Implemented the ability to Print orders or products, Download as pdf or excel sheet.
    - Implement a role based management system to control permissions among the admin, managers and users
    - etc.

- **DOCTOR APPOINTMENT WEP APP (Foundation project - After 9 months - Team of 2)**
    - Fullstack web app with react, tailwind css and nodejs backend
    - Implemented role based Authentication and Authorization with JWT system.
    - Implemented Sign up email verification and several email functionalities
    - etc.
    -
- **AIRBNB CLONe(Mini Project (Team of 2)**
    - Fullstack web app with html, css, javascript, python, Flask, SQLAlchemy, and MySql.
    - Wrote robust unit test cases for all necessary endpoints and units of codes
    - Deployed to personal ALX provided server instances and monitored with DataDog
    - etc.

- **Printf program and Simple Shell Program with C programming language (Team of 2)**
  - Wrote Printf Program with C from scratch exploring all low level C functionalities like memory management, pointers, etc
  - Created a simple shell with C language. The simple shell mimics the normal shell provided by linux environment.

- **PERSONAL PROJECT**
  - Dotnet 6 Microservice api for platform management app.
  - Managed with docker, and kubernetes deployments
  - GRPC for gateway and RabbitMq for message box, publisher-subscriber pattern

CODEMENTOR (REMOTE)   **PORT HARCOURT**
Full Stack Software Developer   Oct 2022 – August 2023

PROJECTS:

- Implemented a wallet system in a fintech solution that allowed customers to monitor and control transactions in a 4 .Net developers agile team.
- Worked with quality assurance staff to identify issues, validate code, and debug issues. Migrated legacy applications to modern development standards, ensuring OOP, SOLID principles, and secure coding
- Collaborated with product managers and quality assurance personnel to quickly resolve technical issues. This led to a 35% increase in customer satisfaction, as measured by the Customer Service department
- Implemented and tested REST API endpoints to meet business requirements for on-demand features
- Created monolithic applications for medium-scale enterprises using .NET 6.

ANAMBRA STATE UNIVERSITY (Student final year Project)   **ULI, ANAMBRA STATE**
Full Stack Software Developer   June 2022 – August 2022

PROJECTS:

- **ATM PROTOTYPE APPLICATION:**
  - Created a .net6 ATM prototype web API with mongodb database, entity framework core and ASPNET CORE identity.
  - Used both swagger API and postman for API testing and incorporated logging functions for easier debugging
  - Implemented user registration, Login and logout with required authentication and authorization.
  - Implemented account creation, withdrawal, deposit, overdraft, etc., functionalities.

- o Implemented account balance checking, loan application, customer complaint and staff relation features
- o Etc.

UPWORK (Student final year Project)   **FREELANCING**
Full Stack Software Developer   March 2022 – April 2022

PROJECTS:

- ● **TOURNAMENT TRACKER APPLICATION:**
    - o Created windows form application with SQL database for the tournament tracker project
    - o Implements a registration, login and logout system
    - o Implements interface for creating teams, joining, leaving a teaming and viewing team members
    - o Implements a feature that allows creating tournaments, matching up teams and tracking the progress of a team or tournament
    - o Created a Prize model that provides the prizes for each team that wins a tournament
    - o Implemented a feature that allows users and prize data to be stored in text file for easy access.
    - o Etc

UPWORK   **FREELANCING**
Full Stack Software Developer   May 2020 – December 2020

PROJECTS:

- ● **EMPLOYEE MANAGEMENT APPLICATION:**
    - o Debugging an existing WCF application for employee management and adding a feature that allows for display of different form field based on whether it is full time employee or part time employee that is searched
    - o Converting the ADO .NET database access ORM to use Dapper to access the existing SQL database
    - o Updates the application to consume a third party API that captures employee daily resumption and closing time and then matches each employees hourly wages to the time worked per day
    - o Solely converted the whole application to a .NET 6 webs API as requested by the CEO and implemented staff-employer interaction and discussion features.
    - o Integrated a calendar API for easy time management for different activities and provided a feature to automatically relay the time and the activities to the admin when due.
    - o Integrated a feature for easy analyses of the employee performance based on the data gathered and matching the scores to the rewards
    - o Etc.

UPWORK   **FREELANCING**
Full Stack Software Developer   February 2020 − April 2020

PROJECTS:

- **REAL ESTATE MANAGEMENT APPLICATION:**
  - o Successfully allow users and agents to create their profiles and in the web app so as to perform their respective activities
  - o Design, analyse and implement the system that can display informative property listing with all necessary details. It holds multiple users and property details therefore a robust database that supports data is required and was implemented
  - o The app allows buyers/sellers/agents to schedule their appointments when required. This was easily integrated by adding a calendar to the app.
  - o Built user signup/login with email/password and Google account authentication
  - o Implemented features that enables upload of photos, prize details, property history and more real time information
  - o Etc.

OCEAN OF EXCELLENCE COLLEGE   **NSUKKA, ENUGU STATE**
Full Stack Software Developer   October 2019 − December 2019

PROJECTS:

- SCHOOL MANAGEMENT APPLICATION:
  - o Designed, built and supported a school management app for managing the students and staff data
  - o Incorporated an advanced login system with JWT authentication, password reset option, and email verification and confirmation option.
  - o Created interface for proper and easy accessibility and analysis of the student and staff details ensuring smooth management with the proper authorization in place.
  - o Implemented a simple comment and suggestions system for the staff and students for easier interactions and sharing of ideas.
  - o Successfully integrated Stripe API as a third party tool to enable online payment of school fees and training of the parents and students on how to use it.
  - o Creating a news/announcement page for easy access to the recent happenings in the school
  - o Etc.

BENID INDUSTRIES LTD   **IKARE, ONDO STATE**
Full Stack Software Developer   August 2018 − June 2019

PROJECTS:

- E-COMMERCE WEB PLATFORM   August 2018 − Nov 2018
  - o Designed, built and supported an E-commerce platform for the company's beverage and alcoholic drink sales and transactions

- o Identified and managed the resources necessary for all stages (planning, design estimation, execution) of the entire development projects to ensure technical, financial targets are met.
- o Ensured successful training of staff and customers on how to use the online platform
- o Implemented a simple shopping cart system with all the necessary functionalities like automatic incrementing of the number of items when added to cart, price calculation at each stage, etc.
- o Successfully integrated Stripe API as a third party tool to enable online payment.
- o Enabled routine updates of products and their prices so as to always break even at all times for the online shop.
- o Etc.

🎬 **CUSTOMER RELATION MANAGEMENT (CRM) SYSTEM**   Jan 2019 – March 2019
- o Integrated a customer relation management platform to the existing e-commerce platform for easy management of the customers
- o Created, reviewed and updated when necessary, the procedure for accessing, analyzing and responding to customers' concerns and complaints.
- o Assigns corrective actions preventive actions CAPA at any appropriate time throughout a complaint's process. Repeat the CAPA process or a different CAPA process if the result or proof of implementation are unsatisfactory
- o Built to ensure proper acquiring, storing and analyzing of customer data or information so that different strategies can be met out to different customers for fast growth and increase in sales
- o Etc.

Educational Qualifications and Certificates

Federal University of Technology, Owerri   **Owerri, Imo State, Nigeria**

Bachelor in Engineering   2012 - 2018

- ○ Graduated with Second-class honours upper division (Electrical and Electronics Engineering)
- ○ NYSC Discharge Certificate   July 2019
- ○ MTN foundation scholarship award   Dec 2014
- ○ ALX certified Software Engineer (12-month bootcamp)   July 2024
- ○ Google IT support Certification (Coursera)   June 2024
- ○ AI Careers Essential (ALX)   May 2024
- ○ ALX certified Data Scientist (in partnership with ExploreAI)   August 2024
- ○ Cisco Certified Network Associate (CCNA)   August 2024
- ○ Google IT Automation with Python   October 2024

Skills

Software development technologies
- o **Frontend**: React, tailwind CSS, Javascript, CSS, HTML, Bootstrap, Redux toolkit, Typscript, Nextjs, webpack, Sass etc
- o **Backend**: Nodejs, Python, Fastapi, Flask, NestJs, .net core, .net framework, WCF, C#, C, etc
- o **Source Control**: Git and Github

- o **Cloud:** AWS, Google cloud, Jenkins, Ansible, Kubernetes, Docker, Bash/shell Scripting, puppet, Servier configurations and deployment models, etc.
- o **Databases**: MySql, Postgresql, SQL, Mongodb, Firebase, Sanity api, Redis
- o **Collaborations**: Teams, Zoom, Slack, Google drive
- o **Project Management:** Jira, Trello
- o **Others:** Google suites, Microsoft Office suite, etc.

Other required Skills
- o Substantial Knowledge of windows and Linus OS, Networking and Servers
- o Good troubleshooting/debugging techniques
- o Critical thinking
- o Sound customer service relationship
- o Active Listening and Good Communication Skills
- o Skilled Researching