

ODOH TOCHUKWU

+2347068670947 | tochukwuodoh03@gmail.com | linkedin.com/in/odoh-tc/ | github.com/odoh-tc | [/portfolio/](#)

EDUCATION

AltSchool Africa – School of Engineering

Diploma in Software Engineering; certificate

Lagos, Nigeria

Sep. 2023 – Aug. 2024

ALX (Holberton School)

Software Engineering; certificate

Westland, Nairobi, Kenya

Feb. 2023 – April 2024

University of Nigeria Nsukka

Bachelor of Pharmacy

Enugu, Nigeria

Sep. 2015 – July. 2021

EXPERIENCE

HNG Internship - Backend Intern

HNG

Remote, Nigeria

June 2024 – Aug. 2024

- Developed scalable backend systems with FastAPI.
- Collaborated with cross-functional teams to define API requirements.
- Created robust, RESTful APIs for seamless frontend-backend communication.
- Optimized database schemas for better data storage and retrieval.
- Managed data using ORMs and implemented data migration scripts.
- Enhanced data retrieval speed with caching and indexing.
- Implemented strong security measures, including authentication and encryption.
- Wrote clean, maintainable code following best practices.
- Automated testing and deployment with CI/CD pipelines.

PROJECTS

Messaging System with RabbitMQ, Celery, and Python behind Nginx

2024

- Designed a messaging system using RabbitMQ for queuing and Celery for asynchronous task processing.
- Created a FastAPI-based application for email sending and task handling, routed through an Nginx reverse proxy.
- Tested the application using ngrok, exposing the local environment to external requests.
- Configured RabbitMQ and Celery for efficient task management to support high traffic volumes.
- Implemented Nginx reverse proxy to secure and optimize external request handling.
- Integrated logging for monitoring task statuses and errors in real-time, improving system observability.

Movie Listing API | *FastAPI, PostgreSQL, SQLAlchemy, JWT, Docker*

2024

- Developed a movie listing API featuring user authentication, reviews, and ratings.
- Utilized Docker for scalability, deploying and testing various API endpoints.
- Implemented search, filter, and sort functionalities based on multiple criteria.

E-commerce API | *FastAPI, PostgreSQL, SQLAlchemy, JWT*

2024

- Built a scalable e-commerce backend with role-based access control (RBAC).
- Enabled business owners to manage multiple stores and product inventories.
- Provided features for customers to place and track orders, with administrative tools for order and product management.

TECHNICAL SKILLS

Languages: Python, Bash, JavaScript, SQL (PostgreSQL, MySQL), HTML/CSS

Frameworks: FastAPI, Flask, Django, React

Developer Tools: Git, Docker, Kubernetes, Ansible, Jenkins, Terraform, VS Code, PyCharm, Visual Studio

Libraries: pandas, NumPy, Matplotlib, Celery, SQLAlchemy

Cloud Platforms: AWS, Google Cloud Platform, Azures

DevOps Tools: Nginx, RabbitMQ, Prometheus, Grafana, TravisCI