

UCHE OFIA

Software Engineer/Debugger

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[LinkedIn](#) | [GitHub](#)

RELEVANT SKILLS

Python

SQL

C/C++

FastAPI

Django

Linux

JavaScript

HTML/CSS

Git

Debugging

EXPERIENCE

Software Engineer/Full Stack Developer (Internships)

April 2022 - Present

Relevant Projects >>>> [Timbu](#) | [Favigen \(Backend\)](#) | [LMS \(Backend\)](#)

- Developed production-ready code for a high-traffic financial management web application, serving over 1000 users. Utilized Python (FastAPI) on the backend and React.js on the front end.
- Made significant contributions to open-source projects, enhancing functionality, fixing bugs, and improving documentation, resulting in a 25% increase in overall productivity.
- Led significant code refactoring on the backend codebase, applying the DRY and SOLID principles thereby achieving a notable reduction of over 5000 lines of code, resulting in improved maintainability and readability.
- Collaborated with a team of 5 members to develop the backend for a cutting-edge learning management system. Leveraged Python's FastAPI framework and TortoiseORM to build efficient asynchronous RESTful APIs and server-side web applications.
- Employed Postgres Database containerized with Docker which sped up development time by 1 week against a 4-week development timeline.
- Orchestrated a team of 15 junior developers in rapidly developing a full-stack web application using the Django framework.
- Successfully delivered the project within a challenging 3-week timeline. Used Django templating engine for frontend development and Bootstrap CSS.
- Designed and implemented custom user models and managers to enhance authentication and authorization functionalities, utilizing front-end function-based views for rendering pages (for easier debugging), resulting in a 40% boost in team productivity.

Data Entry/Excel Specialist (Freelance)

June 2014 - Present

Profile >>>> [\(Fiverr.com\)](#)

- Designed custom spreadsheet templates for over 100 individuals and businesses for data management of their activities and finances (e.g., income and expenses) with appropriate formulas and charts.
- Performed data cleaning and wrangling with formulas, VLOOKUPs, and pivot tables, linking data from multiple spreadsheets to remove redundancies in data entry, minimizing errors and increasing data accuracy by over 70%.
- Delivered over 100 orders with a 4.4-star average rating

PROJECTS

Simple Shell

C, Linux, Bash, Make, Git

- Collaborated with a partner to develop a feature-rich command line shell program in C, mirroring over 80% of the built-in Thompson shell (sh) functionalities on Linux.
- Utilized data structures such as linked lists and arrays to effectively organize and manage data, ensuring efficient memory usage while maintaining a file size under 2KB.

Airline Performance Analysis

Python, Jupyter, NumPy, Pandas, SQL, R

- Conducted Exploratory Data Analysis (EDA) on a vast airline flight dataset comprising over 120 million records, identifying key factors contributing to flight delays and cancellations.
- Employed a combination of SQL, R, and Python to perform in-depth statistical analysis on a three-year sample dataset, consisting of over 6 million records. Translated the analysis into visually compelling visualizations to effectively communicate findings.

EDUCATION/CERTIFICATIONS

ALX <i>Holberton School, Software Engineering</i>	<i>Jan. 2024</i>
Udacity <i>Nanodegree, Data Analytics</i>	<i>Sept. 2022</i>
Federal University of Tech, Owerri, Nigeria <i>B.Eng., Electrical/Electronic Engineering, Communications Eng. Option</i>	<i>Sept. 2021</i>
