OSEMEKE JESSE-PAUL MIRACLE

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EDUCATION

B.Eng Computer Engineering   Expected: July 2025.
Covenant University   Ogun State, Nigeria.
Related Coursework: Software Development Life Cycle, Introduction to C and Program Structure, Data Structures and Algorithms, Introduction to Linux OS, Prototyping Techniques, Software Engineering, Assembly Language Programming.

SKILLS

Programming Languages:
Intermediate proficiency in Python, HTML 5, CSS 3, JavaScript ES6/TypeScript; Beginner proficiency in C, C++.

Frameworks:
Intermediate proficiency in Django (REST Framework), React; Beginner proficiency in Express JS, Tailwind CSS, FastAPI.

Software Tools/ Platforms:
Intermediate proficiency in Git, GitHub, Postman, Heroku, Render, Railway, PIP, VSCode, PostgreSQL, Figma; Beginner proficiency in Azure, MongoDB.

PROJECTS

PDF Chat App   July, 2024.
Full-Stack Developer
- Designed and developed an AI application to chat with an LLM about the contents of an uploaded PDF file.
- Implemented Retrieval Augmented Generation (RAG) to store and retrieve the document from a vector database as context for the LLM.
- Technologies used include ReactJS, FastAPI, Langchain, Google Gemini API, ChromaDB.

StackScaffold CLI   July, 2024.
Software Developer
- Built StackScaffold, a CLI tool for scaffolding web projects easily from the terminal.
- Implemented support for React front-end, Django, FastAPI back-end, and plans to add more support.
- Technologies used include Python, Cookiecutter.

Suicide-Ideation Detection App   June, 2024.
Software Developer
- Collaborated with a partner to build a suicide-ideation detection app that uses machine learning to detect suicidal tendencies in user responses.
- Built a system to perform model evaluation, selection and final prediction; Deployed model to the web via a Streamlit application.
- Technologies used include Python, Numpy, Pandas, SciKit-Learn, Streamlit.

EXPERIENCE

Front-end Development Intern   March, 2024 - Present.
FlexiSAF Edusoft Limited.   Abuja, Nigeria.
- Designed and developed web front-ends .
- Boosted awareness and productivity of the team.
- Implemented UI designs according to the specifications using web technologies such as React, CSS, and more.

Back-end Development Intern   March, 2024 - Present.
ABC Enterprises   Remote.
- Designed, developed and documented the back-end of the InvestNaira application MVP, taking into account authentication methods, database modelling and project performance, among other requirements.
- Deployed the containerized back-end to Azure, and implemented reverse-proxy, DNS and automated deployment.
- Lead a team of 3 engineers to build the complete application, performing code reviews and automating workflows.

CERTIFICATIONS

IBM: Getting Started with Git and GitHub (August 2022), Introduction to Web Development with HTML, CSS and JavaScript (August 2022), Cloud Computing (July 2022); **COURSERA:** Fundamentals of Computer Programming with C Language (May 2022); **UDEMY:** Web Development (Python + Flask + PostgreSQL) (January 2022)