OSITA MICHAEL

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Education

LEEDS BECKETT 2024 - 2027

Key Modules:

College/Sixth Form WESTERFIELD COLLEGE 2023– 2024

A Level: MATHEMATICS (**B**), ENGLISH(**A**), PROGRAMMING(A)

AS Level:PHYSICS(B)

Secondary School 2021 – 2023

GCSE: MATHEMATICS (C) ENGLISH (B), PHYSICS(B) CHEMISTRY(A)

Skills

- Programming Languages: Python, java, Django C,
- Tools & Technologies: Eclipse, VS code, Intelli J, Notepad -terminal,
- Languages: python, DJango, Java, Javascript, C
- Certifications: RED HAT certification, course IBM soon expected

Work Experience

Junior Web Developer 05 2024 - 06 2024

- Junior web developer– The purpose of this experience was to develop and maintain web applications that help users interact with online services efficiently. The main problem being solved was improving website functionality
- Action - To solve these problems, I wrote and tested code using programming languages such as HTML, CSS, JavaScript, and Python. I also debugged errors, improved website performance, worked with databases, and collaborated with other developers to implement new features.
- Result - As a result of these actions, the website became more functional, user-friendly, and reliable. This improved user experience, reduced technical issues, and ensured that the system could efficiently handle user requests and store data properly, which is important for maintaining a professional and effective web service.

IoT Systems Developer

02 2026- 04 2026

- Context - The purpose of this project was to build an IoT system that can monitor sensors and control smart devices using real-time data processing. The problem being solved was how to automatically collect, visualize, and manage environmental data from connected devices.
- Action - To achieve this, I configured Node-RED on a Raspberry Pi and created automation flows to connect sensors and smart devices. I integrated environmental sensors, processed incoming data, and used dashboards to visualize real-time information and control devices such as lights
- Result - As a result, the system successfully collected and displayed real-time sensor data while enabling automated device control. This improved monitoring efficiency and demonstrated how IoT technology can support smart environments and automated decision-making.

IT Support Assistant 10 2025 - 12 2025

● Context: Worked as part of the IT support team responsible for ensuring that computers, printers, and network systems used by staff were functioning properly to support daily office activities.

● Action: Diagnosed and resolved technical issues by troubleshooting hardware and software problems, installing and configuring applications, assisting users with password resets, and performing system updates and basic network checks.

● Result: Successfully minimized technical disruptions, improved system reliability, and helped staff continue their work efficiently without long delays caused by IT problems.

Projects

Project 1 03 2025 - 05 2025

Github Repo - https://github.com/OOP-2025-Classroom/oop-portfolio-2025-ositamichael.git

Turtle Graphics Drawing System (OOP Project) – Leeds Beckett University |
Tech Stack: Java, Object-Oriented Programming, LBUGraphics Library

● Context: The purpose of the project was to build a turtle graphics drawing application that allows users to control a turtle on the screen using text commands. The problem the project solved was creating an interactive system where users could easily draw shapes, angles, and patterns while learning how object-oriented programming works.

● Action: I developed the application using Java by extending the LBUGraphics class and creating custom command processing. I implemented commands that allow the turtle to move forward, turn at different angles, draw circles, and create different shapes. I also added input validation to handle incorrect commands and ensured the system responded properly to user instructions.

● Result: The final result was a working drawing program that could interpret commands and produce visual shapes such as circles, angles, and geometric patterns. This project improved my understanding of object-oriented programming concepts such as inheritance, command handling, and user input validation.

Project 2 10 2025 - 11 2025

Github Repo -https://github.com/lbu-wat/wat-2025-ositamichael.git

*Tech Stack:*Python, Django, SQLite, HTML

● Context: The purpose of the project was to build a professional web system that stores and manages service user data in a database. The problem it solved was organizing and securely storing information such as user details and records in a structured system instead of keeping them manually.

● Action: I developed the system using Django as the backend framework and SQLite as the database. I created database models to store the information, configured the Django admin panel for data management, and ran the web application on a local server using a port number so the system could be accessed through a web browser.

● Result: The final result was a functional web application that allows administrators to log in, manage records, and store data efficiently through the Django admin dashboard. Through this project I learned how backend development, databases, and web servers work together to build a real web application.

Project 3 01 2026 - PRESENT

Github Repo -https://github.com/CB445/Team-Project.git
*Tech Stack:*Python, Django, Node-RED, Raspberry Pi

● Context: The purpose of the project was to develop a wristband tracking system to monitor the movement of service users, especially those at risk of falls or requiring close supervision. The problem it solved was helping care staff know the real-time location of service users and improving safety in care environments.

● Action: I built the system using a Raspberry Pi connected to sensors and IoT devices. I used Node-RED to process movement data from the wristband detectors and integrated the system with a Django backend that stores the user information and location data in a database.

● Result: The result was a working prototype that can detect and monitor service user movement and store the information in a database for staff monitoring. This project helped me learn about IoT systems, backend development, and how hardware devices can connect with web applications to solve real-world problems.

Extracurricular Activities & Responsibilities

Activity 1 07 2025 - 01 2026

- Context – I enjoy coding outside university to improve my technical skills and gain practical experience in software development.
- Action -I build personal projects such as websites and database systems using technologies like Django, Oracle APEX, HTML, CSS, JavaScript, and SQL. I also experiment with new tools and frameworks to expand my knowledge.
- Result - These projects have improved my programming ability, problem-solving skills, and understanding of full-stack development and database design.

Activity 2 01 2025 - 03 2026

- Context -I wanted to strengthen my understanding of database systems and real-world application development.
- Action - I designed and built database solutions and web applications for practice using Oracle APEX, Django, and SQL, focusing on data management, system functionality, and usability.
- Result - This helped me develop strong analytical thinking, practical development experience, and confidence working with data-driven systems.