

MALCOLM IKPASAJA

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Education

Degree: First Class BSc(Hons) Computer Science

Institution Name: University of Wolverhampton

Related Coursework: Data Structures & Algorithms, Objects-Oriented Design & Programming, Robotic Engineering, Artificial Intelligence, object-oriented Programming, Distributed and Cloud Systems Programming, Collaborative development.

Work Experience

SOFTWARE ENGINEERING INTERN Nov 2021 - Feb 2022

Blue Inc. tech, Abuja, Nigeria

- Diagnosed and resolved 50+ IT issues, maintaining 98% uptime across all systems.
- Managed internal databases and websites, boosting data accuracy and load speed by 15%.
- Resolved customer and colleague inquiries related to networks, systems, and applications through a dedicated help desk.

STUDENT AMBASSADOR Jan 2023 - Sept 2023

University of Wolverhampton, Wolverhampton, UK

- Provided guidance and shared student life insights with applicants, boosting university engagement.
- Represented the university at open days, outreach events, and campus tours, engaging with prospective students and parents.
- Collaborated with faculty and administrators to support events and digital campaigns.

TEACHING ASSISTANT Feb 2024 - June 2024

WLV Department of Computer Science, Wolverhampton, UK

- Lead Office hours for 30+ students in the Robotics Engineering Course workshops, offering support on Python, Jupyter Notebooks, and CoppeliaSim.
- Delivered workshops on integrating behavior trees in robot navigation, guiding students in developing and debugging autonomous systems.
- Optimized CoppeliaSim simulations and instructed on real-time debugging, enhancing students' problem-solving and algorithm development skills.

Projects

Real-Time Collaborative Code Editor (Final Year Project)

- **Role:** Developer
- **Objective:** Investigate the impact of real-time collaborative code editors on developer productivity with a prototype demonstrating real-time features.
- **Technologies:** React, Node.js, WebSockets, CodeMirror.

JL Care Booking Business and Website

- **Role:** Project Manager/ Software developer
- **Objective:** Develop a user-friendly care booking website with secure payment systems.
- **Technologies:** WordPress, HTML/CSS, WooCommerce, Security Plugins.

At-Risk Student Predictor: Machine Learning-Based Academic Risk Artefact

- **Role:** Software developer
- **Objective:** Developed an ML artefact to identify at-risk students using academic and behavioural data.
- **Technologies:** Python, scikit-learn, Jupyter Notebook, Pandas, Matplotlib.

AI-Powered Financial Advice Chatbot

- **Role:** Software Developer
- **Objective:** Create a chatbot for financial advice using NLP and machine learning.
- **Technologies:** Python, TensorFlow, Flask, NLTK

AI-Powered Customer Service Chatbot

- **Role:** Software Developer
- **Objective:** Develop a chatbot for handling customer service inquiries with NLP.
- **Technologies:** Python, TensorFlow, Flask, NLTK

Weather Forecasting Application

- **Role:** Developer
- **Objective:** Build a web application for real-time weather forecasts using the OpenWeatherMap API.
- **Technologies:** Python, Flask, HTML/CSS/JavaScript, OpenWeatherMap API.

Skills

- **Programming:** Python (Machine Learning, NLP), Java, JavaScript, C++, HTML, PHP.
- **Frameworks & Libraries:** Flask, TensorFlow, React, Node.js, NLTK.
- **Web Development:** REST APIs, Responsive Design, Full-Stack Development.
- **Tools & Platforms:** Git, GitHub, Linux, Firebase, WordPress, WooCommerce, AWS, Bootstrap, Linux, CoppellaSim, Microsoft Azure.
- **Databases:** SQL, MongoDB.