

## **Favour Oluwatobi Adetunji**

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|| Location: Edinburgh, Scotland

### **EDUCATION**

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#### **M.Sc. Robotics**

**[September 2022- August 2023]**

*Heriot-Watt University / Edinburgh, UK*

#### **B.Eng. Mechatronics Engineering**

**[September 2015- June 2019]**

*Afe Babalola University / Ekiti, Nigeria / CGPA: 4.77 / 5.0*

### **WORK EXPERIENCE**

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#### **Junior Engineer**

**[July 2023 – Present]**

*The National Robotarium / Edinburgh, UK*

- Actively participating in a systems design conceptualization, ideation, and development as part of a proof-of-concept initiative.
- Currently developing control programs for cobot applications to facilitate seamless integration with other system components to optimize automation workflows.
- Utilized hand-eye camera calibration techniques to ensure seamless integration between a vision system and a cobot for advanced object detection and manipulation tasks.
- Responsible for creating and presenting comprehensive reports encompassing system structure, usage, and in-depth documentation of testing processes and outcomes within the context of robotic control for the project.

#### **Software Developer**

**[August 2022 – September 2022]**

*Transfy / Port Harcourt, Nigeria*

- Collaborated with the design team to translate visual concepts into responsive web elements, successfully integrating these front-end solutions with back-end systems by leveraging Vue.js to deliver a cohesive and engaging user interface.
- Collaborated closely with cross-functional teams to design and implement RESTful APIs, leveraging the Laravel framework to define API endpoints, create data models, and establish robust authentication mechanisms. This facilitated seamless data communication with third-party services while ensuring data integrity and security.

**Software Developer****[December 2019 – October 2020]***Niger Delta University (National Youth Service) / Bayelsa, Nigeria*

- Participated in the development and implementation of core backend utilities and logic by collaborating closely with team members to design, code, test and deploy critical features and functionalities, leveraging the Laravel framework.
- Engaged in the creation and integration of new front-end designs and functionalities through close collaborations with graphic designers to bring innovative user interfaces to life.
- Documented work processes and contributed to project documentation, facilitating project tracking, reporting, and future reference.

**Engineering Intern****[July 2017 - August 2017, February 2018 - August 2018]***Stallion Motors Limited / Port Harcourt, Nigeria*

- Participated in the repair and replacement procedures on a diverse range of electrical, and mechanical vehicle components such as sensors, switches, engines, and suspension systems.
- Performed routine car servicing, adhering to manufacturer-recommended maintenance schedules and procedures to extend the lifespan and efficiency of vehicles.
- Utilized advanced diagnostic tools and methodologies to identify and rectify vehicular issues promptly.

**Engineering Intern****[August 2016 - October 2016]***Oil and Industrial Services Ltd / Port Harcourt, Nigeria*

- Involved in the interpretation and execution of engineering drawings encompassing different operations, including welding, cutting, folding, shearing, and machining processes.

**PERSONAL PROJECTS**

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- Portfolio Site – Web Development | Available [here](#)
- Digital Twin for Underwater Teleoperation – Robotics | Available [here](#)
- Path Planner – Robotics | Available [here](#)
- Pick and Place – Robotics | Available [here](#)
- Automatic Door System – Embedded Systems | Available [here](#)
- Configurable Neural Network from Scratch – Machine Learning | Available [here](#)
- PSO and Genetic Algorithm – Machine Learning | Available [here](#)
- Bitcoin Trading Bot - Reinforcement Learning | Available [here](#)
- Sign Language Interpreter – Computer Vision, Deep Learning | Available [here](#)

- End-to-End ML Model – Web Development, Machine Learning | Available [here](#)
- Text Summarization - Web Development, Natural Language Processing | Available [here](#)

## **CERTIFICATIONS**

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- Data Engineering Internship Program (Hamoye) [2021]
- Artificial Intelligence A-Z™: Learn How To Build An AI (Udemy) [2021]
- Deployment of Machine Learning Models (Udemy) [2020]
- Deep Learning A-Z™: Hands-On Artificial Neural Networks (Udemy) [2020]
- Machine Learning A-Z™: Hands-On Python and R In Data Science (Udemy) [2020]

## **TECHNICAL SKILLS**

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- Python, C++, C, C# (Machine learning, Deep learning, Reinforcement Learning, Game Development, Computer Vision, ROS, Embedded Systems Programming, IoT)
- MATLAB (Control System Design)
- Proteus (Electronic Design)
- SolidWorks, Autodesk (Computer Aided Design)
- JavaScript (Web Development)

## **REFERENCES**

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Available on request.