ABDULLAHI YUSUF RUFAI

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PROFESSIONAL SUMMARY

Hardworking and enthusiastic University graduate at Mechatronics and Systems Engineering at the Abubakar Tafawa Balewa University. I seek to use my knowledge of Mechatronics, Computer programming, embedded systems, and communication skill to effectively serve. I am dedicated to becoming a dependable and valuable team member who is willing to learn and accept new challenges. Through my previous experiences, including student leadership, and community training facilitation, I have developed excellent communication, problem-solving, and collaboration skills that I believe would make me a responsible and valuable asset to your team. I am excited to use these skills, and contribute to the growth and success of your company. Thank you for your consideration, and I look forward to the opportunity to contribute to your team.

EDUCATION

Abubakar Tafawa Balewa University – Bauchi, Nigeria   March 2018 – October 204
B. Eng. Mechatronics and Systems Engineering

Government Secondary School – Jebba, Nigeria   January 2008 – June 2014
SSCE. Science option

Muslim Community Nusery and primary school – Jebba,   January 2008 – June 2014
Nigeria School Certificate

Nascomsoft Embedded – Bauchi, Nigeria   January 2020 – June 2020
Diploma in Embedded system Certificate

WORK EXPERIENCE

Google Developer Students' Club, ATBU – Bauchi, Nigeria   March 2022 – present
Volunteer Tutor

1. Tutored community members on Introduction to Data Science and Machine Learning using python.
2. I am actively involved in a team responsible for coordinating student-events.

Nascomsoft Embedded – Bauchi, Nigeria   January 2022 – Present
Software and Machine Learning Engineering Tutor (Python, C++ and AI)

1. Tutored over 74 students on Python and Physical Computing using the Raspberry Pi
2. Designed the software and control structure for an autonomous weeding machine using Image Recognition on the Raspberry Pi
3. Implemented a TinyML application using Edge Impulse for Energy harvesting in Aquatic bodies.
4. Wrote a tutorial and code on how to efficiently send IoT data from ESP8266 MCU to MATWORK ThingSpeak (C++ & C).
5. Developed a comprehensive python, machine learning and data science module for beginner and Intermediate level.
6. Tutored over 80 student on data science and machine learning using python programming language.

MCNP School – Jebba, Nigeria   December 2018 – February 2019
Computer Science Tutor

1. Tutored elementary school students on Computer Science and Computer Appreciation
2. Assumed the role of Primary Three class instructor, responsible for a class of 34 students.
3. Successfully led a team of students to four different sports competitions, achieving victory in three out of the four events
4. Effectively spearheaded the team responsible for planning and executing the school's inter-house sports competition.

Kid's Can code – Bauchi, Nigeria   August 2022 – present
Volunteer Tutor

1.Developed and delivered engaging coding lessons to 16 students.
2. Mentored and tutor 28 in robotic class where mobile robot was built.
3. Organized coding competitions and workshops to foster a competitive learning environment.
4. Collaborated with other tutors to develop curriculum and resources.

AI Bauchi – Bauchi, Nigeria   January 2023 – present
Volunteer project Coordinator and Tutor

1. Coordinated volunteer activities and projects to promote AI education.
2. Taught AI concepts and programming to 16 participants.
3. Organized AI hackathons and competitions to encourage innovation.
4. Built strong relationships with community partners to support AI initiatives

SOME PROJECT I WORK ON

Predictive Analytics for E-commerce   February 2022
- Engineered a predictive model to forecast sales using historical data from an e-commerce platform.
- Utilized Python libraries such as sci-kit-learn and pandas for data analysis and modeling.

Social Media Sentiment Analysis   June 2022
- Analyzed data from Meta to gauge public sentiment on various topics using natural language processing techniques.
- Built sentiment analysis models using NLTK and TextBlob in Python, and visualized the results with Matplotlib.

Medical Chatbot (LEEMA)   March 2024
- Developed a medical chatbot (LEEMA) to provide initial medical consultations.
- Utilized Natural Language Processing (NLP) to understand and respond to user queries.
- Implemented symptom checker, appointment booking, and health information modules.

Autism Detection using Machine Learning   August 2024
- Built a machine learning model for early autism detection.
- Employed different Machine Learning Algorithm to classify individuals based on behavioral patterns.
- Achieved very good accuracy in predicting autism spectrum disorder.

Criminal Detection and Identification with MTCNN   May 2023
- Implemented a facial recognition system using MTCNN for criminal identification.
- Developed a database of facial images and integrated it with a surveillance system.

Home Automation (monitoring and controlling) with Blynk   May 2023
- Designed and developed a home automation system using Blynk.
- Integrated with various sensors and actuators to control lighting, temperature, and security systems. Implemented a user-friendly
- mobile application for remote monitoring and control.

Web-based Farmer Fertilizer Recommendation and Weather Prediction   December 2023
- Created a web application to assist farmers in optimizing fertilizer usage and crop yield.
- Developed a machine learning model to predict weather patterns and soil conditions.
- Provided recommendations based on collected data.

LEADERSHIP AND COMMUNITY INVOLVEMENT

Readg-ATBU, Nigeria | Founder   February 2022 – Present
- Founded a reading and research group for ATBU students.
- Organized orientation sessions and workshops.
- Fostered a strong community of knowledge-sharing among students.

BOTG Jebba, Nigeria | Founder   January 2019 - Preset
- Established an orientation group to educate youth on drug abuse prevention.
- Conducted awareness campaigns and workshops within the community.
- Collaborated with local authorities on drug rehabilitation programs.

Community Leader | Garika Community Representative   May 2020 – December 2020
- Served as the political representative for the Garika community at the local government level.
- Advocated for community interests and needs.
- Successfully secured fund from state government to help the widow.

AWARDS AND HONORS

Award of Commitment | Kids Can Code Project   August 2023
Recognized for dedication and contributions to the Kids Can Code project.

Award of Contribution to Humanity | NAKSS   July 2024
Honored for significant contributions to improving the lives of others under the umbrella of NAKSS.

AI Recognition | NAKSS   July 2024
Acknowledged for achievements in AI studies and participation in the AI program.

SKILLS AND CERTIFICATE

- **Programming Languages:** Python, C++, R, MATLAB
- **Tools and Technologies**: Window, Linux, Git, Azure Cloud, Google office package
- **Machine Learning:** Supervised and Unsupervised Learning, Model Evaluation, NLP, Computer Vision, OCR
- **Certifications:** NSE Embedded system certificate, Datacomp Python certificate,

REFERENCE

- Engr. Nasir Abdulsalam | CEO Nascomsoft | nasirabdulsalm@gmail.com
- Engr. Abdulwahab Dorojaye | Lecture ATBU | wahabibnismail2008@gami.com
- Samuel Adesola | Student ATBU | adesolasamuel@gmail.com