



Abdulsamad Muyideen

No.1 Dogarawa Opposite Secretariat, 
Sabon Gari, Zaria
08092864770 
abdulsamadmuyideen@gmail.com 
Abdulsamad Muyideen 
GitHub: Th3Samaritan 

Innovative professional with a strong background in CAE, FEA, metallurgical and materials engineering, security engineering, and software engineering. With extensive experience in analyzing and designing materials, conducting simulations, ensuring system security, and developing cutting-edge software solutions, I bring a unique blend of technical expertise and problem-solving skills to drive project success. Proven ability to deliver high-quality results, optimize performance, and enhance product reliability. Collaborative team player with a passion for continuous learning and staying at the forefront of emerging technologies.

Skills

- Software Development
- 3D CAD Modelling
- Finite Element Analysis
- Project Management
- Materials Analysis and Modelling
- Web Development
- Machine learning and Data Analytics
- Cyber Security
- Communication
- Leadership
- Tutoring and Mentorship
- Software Proficiency
- Problem Solving

Experience

2022 – 2024

Project Manager/ STEM CODERS, ABU Zaria

Responsibilities:

- Managed web and software development projects.
- Coordinated team efforts and ensure timely project delivery.
- Interacted with customers for requirements gathering and updates.
- Utilized project management tools (Asana, RACI charts, Kanban boards) for task organization and tracking.
- Fostered effective team communication and collaboration.
- Conducted risk assessments and implemented mitigation strategies to prevent project delays.
- Led project meetings, facilitated decision-making, and managed conflicts to keep projects on track.

2023 – 2024

Student Senator / National Association of Metallurgical and Materials Engineering Student Society.

Responsibilities:

- Represented the interests and concerns of students studying in the Northwest region.
- Participated in policy-making and decision-making processes.
- Organized and coordinated events and activities for the student society.

2019 – PRESENT

Penetration Tester/Bug Hunter / STEM CODERS, HackerOne, BugCrowd.

Responsibilities:

- Blue Team: Security hardening of cloud servers using tools like Suricata, Wazuh, Splunk, Snort, and OSSEC.
- Red Team: Conducted vulnerability analyses and penetration tests on servers, web applications, and mobile applications using tools like Burp Suite, Nessus, and API hacking.
- Conducted penetration testing assessments, including network and active directory attacks.
- Identified and reported security vulnerabilities.

2017 – PRESENT

Software Developer / STEM CODERS, Freelancing

Responsibilities:

- Built machine learning models for prediction using Python, Scikit Learn and TensorFlow.
- Developed functional algorithms using Java.
- Developed Programs by Integrating Machine Learning models with JavaFX.
- Utilized Spring framework to enhance functionality and improve performance of Java applications.
- Implemented best practices for software development, including testing, debugging, and documentation.
- Developed and maintained Java applications for a variety of clients and project.

2022 – present

Machine Learning Engineer / Freelancing

Responsibilities:

- Conducted in-depth analysis of large datasets to identify patterns and trends, leading to more accurate predictive models for forecasting.
- Developed and fine-tuned predictive models using Python, Scikit learn, and TensorFlow to accurately predict materials property.
- Optimized predictive models through feature engineering and hyperparameter tuning to achieve a 90% accuracy rate in forecasting mechanical property from materials composition and heat treatment method.

2017 – PRESENT

Web Developer / STEM CODERS, Freelancing

Responsibilities:

- Backend development using PHP, HTML5, and CSS3.
- Frontend development using React JS and Material-UI.
- Database Management using MongoDB and MySQL.
- Development of Encryption Algorithm for Database Security.
- Conducted website performance analysis and implemented optimizations to achieve faster page load times and improved site speed.

2023– 2024

Materials Analysis and Modelling / 431 Engineering, Nigerian Air Force Kaduna

Responsibilities:

- Utilized software tools such as MATLAB, Excel and ANSYS for data processing, model creation, and visualization of simulation outputs.
- Developed and validated computational models to simulate material BEHAVIOUR under different loading conditions for better understanding and prediction of performance.
- Conducted in-depth analysis of various materials using advanced techniques such as SEM, TEM, and XRD to characterize microstructure and properties.
- Presented findings and recommendations to stakeholders through clear and concise reports, presentations, and technical documentation.

2023 – 2024

Aircraft Airframe Intern / 431 Engineering, Nigerian Air Force, Kaduna

Responsibilities:

- Responsible for selecting and testing composite materials used in aircraft structures to ensure they meet safety and performance standards.
- Skilled in analysing and interpreting engineering drawings and specifications to determine material requirements for aircraft components.
- Proficient in using software tools to model and simulate the behaviour of composite materials under different conditions.
- Experienced in conducting quality control inspections on composite materials during manufacturing processes to identify defects and ensure compliance with regulations.
- Collaborated with engineers and designers to develop innovative solutions for improving the performance and efficiency of composite materials in aircraft applications.

2023 – 2024

Non-Destructive Testing Specialist/ 431 Engineering, Nigerian Air Force, Kaduna

Responsibilities:

- Performed magnetic particle testing on components to identify surface cracks or flaws that could compromise safety or performance.
- Implemented dye penetrant inspection techniques to assess the surface quality of materials and detect any imperfections not visible to the naked eye.
- Collaborated with engineers and technicians to develop testing procedures and ensure compliance with regulatory requirement.

2018 – 2023

3D CAD Design and FEA / Freelancing

Responsibilities:

- Experienced in performing Finite Element Analysis (FEA) using tools like ANSYS to analyze structural integrity and optimize designs.
- Proficient in creating 3D CAD models using software such as SolidWorks, AutoCAD.
- Skilled in translating design concepts and engineering drawings into detailed CAD models for prototyping and production.

- Strong background in mechanical engineering principles and the ability to apply them to complex design challenges.
- Capable of collaborating with cross-functional teams to incorporate design feedback and iterate on CAD models for continuous improvement and innovation.

2010 – 2023

Business Manager / Musadeen Business Ventures, Zaria

Responsibilities:

- Led marketing and sales of automobile spare parts.
- Developed and implemented strategic business plans to drive company growth and profitability.
- Oversaw budgeting, financial forecasting, and business performance analysis to ensure effective resource allocation.
- Established strong relationships with key stakeholders, partners, and clients to enhance business partnerships and drive customer retention.
- Developed business strategies to enhance market presence.

Education

OCTOBER 2024

Bachelors in engineering/ metallurgical and materials engineering / Ahmadu Bello University, Zaria.

Second Class Upper in B.Eng. Metallurgical and Materials Engineering from Ahmadu Bello University, Zaria. Conducted extensive research on recycling PET plastic into 3D printing filament, synthesizing bio-glass using the sol-gel method, recycling e-waste through hydrometallurgy, and developing aluminium alloy-glass powder composites via powder metallurgy. My final year project involved simulating and predicting material mechanical properties based on the iron-carbon phase diagram using materials informatics.

Certifications

- Certification in Java Programming/ SoloLearn
- Certification in Python Programming/ SoloLearn
- Certification in Network Security/ StationX
- Certification in Network Security Assessment/ StationX
- Practical Ethical Hacking/ TCM Academy
- Certified Network and Web Pentesting Professional/ XSS-RAT
- Certification in Project Management / Google
- Advance Certification in Environmental Standards/ SPESSECE

Interest

- Cryptography: Ciphering and deciphering codes
- Reading: Literature (The Godfather, Da Vinci Code, Tempest),
- Cyber-Events: CTF and OSINT challenges
- Video Games: Football, Adventure, Combat, Simulation

Language

- Yoruba
- English
- Arabic
- French

Volunteers

- Research Assistant
- Content Creator for Hackerats.com
- Speaker on Cybersecurity Careers
- AutoCAD Design for Students and Lecturers
- Backend Web Development Tutor for Campus Students
- Cybersecurity Tutor (Bug Bounty, Ethical Hacking, InfoSec)
- Programming and Web Development Tutor