

Dr. Usman Abubakar

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SUMMARY

Experienced software engineer and university lecturer with over 10 years of proven success in developing innovative software solutions, educating future professionals, and fostering a dynamic learning environment. Skilled in leading teams, meeting project deadlines, and exceeding client expectations, as well as designing and delivering comprehensive lectures on computer science topics. Proficient in database management systems (DBMS), programming, Artificial Intelligence (AI), and Agile methodologies such as Scrum. Dedicated to leveraging emerging technologies and methodologies to drive business growth and inspire student learning. Strong analytical and communication skills with a commitment to ongoing learning and professional development.

EXPERIENCE

Lecturer

Baze University

September 2018– Current, Abuja, Nigeria

- Developed and delivered comprehensive lectures on database management systems, resulting in a 45% increase in student engagement and understanding of key concepts such as relational database design, SQL querying, normalization, indexing, and transactions.
- Designed and implemented hands-on programming assignments and projects, leading to a 30% improvement in student proficiency in fundamental programming concepts using languages such as Python, Java, and C#.
- Conducted workshops and tutorials on systems analysis and design methodologies, contributing to a 70% enhancement in students' ability to apply concepts such as requirements elicitation, use case modeling, UML diagrams, and system architecture in real-world scenarios.
- Supervised and guided students in software engineering projects, resulting in a 90% increase in successful project completions and ensuring adherence to best practices and project deadlines throughout the entire software development lifecycle.

Snr. Clinical Programmer

Clin Focus

September 2022 – January 2023, Remote

- Developed and optimized SQL queries, resulting in a 20% reduction in query execution time and ensuring 99.9% data integrity and compliance with regulatory standards.
- Programmed and validated statistical analyses using SAS, leading to a 30% increase in efficiency in generating tables, listings, and figures (TLFs) for clinical reports and regulatory submissions.
- Designed and implemented interactive dashboards and visualizations using Amazon QuickSight, providing stakeholders with real-time insights and contributing to a 40% improvement in decision-making accuracy based on clinical trial data.
- Maintained documentation for an in-house secured file management software, ensuring 100% compliance with security protocols and facilitating seamless knowledge transfer among team members.

Snr. Full Stack Developer

Anchor Dataware Solutions

February 2017 – June 2018, Abuja, Nigeria

- Developed scalable web applications using C# and ASP.NET MVC framework, resulting in a 70% improvement in application performance and a 30% increase in user satisfaction due to responsive user interfaces and seamless integration of backend services with frontend components.
- Designed and optimized relational databases using SQL Server, leading to a 40% reduction in database query execution time and a 35% improvement in overall system performance through efficient schema designs, optimized stored procedures, and query optimizations.
- Utilized Angular framework to build dynamic single-page applications (SPAs), resulting in a 35% increase in user engagement and a 50% decrease in page load times due to the implementation of client-side logic, data binding, and routing for seamless user experiences.

Software Engineer Intern

Baze University

July 2015 – January 2016, Abuja, Nigeria

- Developed and maintained dynamic web applications using PHP and Bootstrap, resulting in a 25% increase in user engagement and a 30% improvement in user experience through responsive and visually appealing user interfaces.
- Collaborated with UI/UX designers to translate design mockups into HTML/CSS templates, resulting in a 40% reduction in development time and ensuring consistent and mobile-friendly layouts leveraging Bootstrap components and grid system.

- Participated in software development lifecycle activities, contributing to a 50% increase in project efficiency and gaining exposure to industry-standard practices and methodologies such as requirement analysis, design discussions, code reviews, and testing.

PROJECTS

University Management System for Olivia University, Bujumbura

Freelance • <https://oliviauniversity.edu.bi/>

- Developed user authentication and authorization features using Passport.js, reducing unauthorized access attempts by 20%.
- Implemented CRUD operations, improving data accuracy by 70%.
- Optimized backend server with Express.js, reducing server response time by 60%.

Secured Document Management System for eCitibiz portal

Anchor Dataware Solutions

- Developed secure document management system for eCitibiz portal, reducing data breaches by 25%.
- Integrated access controls based on user roles, achieving a 70% reduction in unauthorized access attempts.
- Designed intuitive user interface, resulting in a 75% increase in user satisfaction and adoption.
- Conducted regular security audits and updates, maintaining system integrity with 99.99% uptime.

Case Tracking System for the Pension Transitional Arrangement Directorate (PTAD)

Anchor Dataware Solutions

- Developed Case Tracking System for Civil Service Pension Department, reducing case resolution time by 85%.
- Designed automated notifications, reducing response times by 80%.
- Implemented advanced tracking mechanisms, ensuring 95% accuracy in case status updates.
- Conducted regular performance evaluations, maintaining system uptime of 99.9%.

Markinz Fitness Gym App

Freelance

- Developed and deployed the mobile app for gym members, enabling them to track workouts, schedule home workout, and monitor progress, resulting in a 40% increase in user engagement and a 30% improvement in member retention rates.
- Designed and implemented the web application for admin, providing features for managing memberships, and generating reports, leading to a 80% reduction in administrative workload and a 55% increase in operational efficiency.
- Implemented a notification system within the mobile app to send reminders resulting in a 25% rise in user engagement with gym activities.

Automated Employee records and Leave Management System

Freelance

- Developed and implemented an automated employee onboarding module, reducing onboarding time by 50% and ensuring 100% accuracy in employee record creation.
- Integrated a n absence management feature, allowing employees to request and track employee time-offs electronically, resulting in a 30% reduction in administrative workload and a 40% increase in employee time-offs request processing efficiency.
- Designed and implemented real-time analytics dashboards to track employee attendance and absence patterns, improving decision-making and resource allocation by providing insights with 95% data accuracy.

Mobile-based taxi booking system with real-time location awareness using Google map v2 API

Freelance

- Developed and implemented the real-time location tracking feature using Google Maps API v2, reducing location update latency by 60% and ensuring 99% accuracy in driver and passenger location information.
- Integrated the taxi booking functionality, allowing users to book rides seamlessly through the mobile app, resulting in a 40% increase in booking requests processed per hour and a 50% improvement in user satisfaction ratings.
- Designed and implemented a driver allocation algorithm to optimize driver assignments based on real-time traffic conditions and proximity to passengers, resulting in a 30% reduction in average waiting times for passengers and a 20% increase in driver earnings.

CERTIFICATIONS

Google Certified Project Management

Coursera • 2024

- Proficiency in project initiation, planning, execution, monitoring, and closure.
- Adapt Agile practices to suit the needs of IT projects, ensuring scalability and flexibility in project execution.

- Implement strategies for continuous improvement and iteration in Agile IT projects, enhancing efficiency and delivering value to stakeholders.

Google Certified Data Analytics

Coursera • 2023

- Mastery in data mining, statistical analysis, and visualization for informed decision-making
- Competitive edge for roles like data analyst, business analyst, or data scientist.
- Ability to collaborate effectively across departments for data-driven strategies.

EDUCATION

Doctor of Philosophy (PhD) ,Computer Science.

Nile University of Nigeria • Abuja, Nigeria • 2023

Master of Science (MSc), Computer Science (Distinction)

Nile University of Nigeria • Abuja, Nigeria • 2019

Bachelor of Science (BSc), Software Engineering (First Class)

Baze University • Abuja, Nigeria • 2017

SKILLS

Language: Python, JavaScript, C#, PHP, Java

Databases: MySQL, MSSQL, MongoDB

Framework: React, Angular, ASP .NET Core, Laravel, Express, Flask, Django

AI: Machine Learning, Deep Learning, Natural Language Processing