USMAN BELLO ABUBAKAR, PhD

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EXECUTIVE SUMMARY

Software engineer and academician with a PhD in Computer Science and over 7 years of experience in Software Engineering, Full-Stack Development, and lecturing in core IT subjects such as Data Structures, Programming, Algorithms, DBMS, Software Engineering, and Systems Analysis & Design. Strong expertise in designing, developing, and deploying Apps with a focus on scalability, performance, and security. A passionate researcher with 10+ published papers in reputable journals, and conferences, combining academic excellence with hands-on technical proficiency.

WORK EXPERIENCE

Baze University   **Abuja, Nigeria**
Lecturer   *Sep 2019 - Present*

- Undergraduate (UG) courses taught: Programming 1(COM201), Database 1 (COM204), Programming 2(COM205), Database 2(COM304), Systems Analysis & Design (COM307)
- Postgraduate (PG) courses taught: IT Research Methods (COM712), Data Management (COM715), Software Engineering (COM717), Advanced Database Management Systems (COM809)
- Integrated hands-on coding exercises and projects into courses, boosting practical skills in C++, Java, Python, PHP, .Net and achieving a 30% increase in student assessment scores.

ClinFocus   **Remote**
Snr Clinical Programmer (Remote)   *Sep 2022 - Jan 2023*

- Developed and improved 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 with Amazon QuickSight, providing insights and enhancing decision-making accuracy by 40% for clinical trial data.

Anchor Dataware   **Abuja, Nigeria**
Full Stack Developer & Database Administrator   *Feb 2017 - Jun 2018*

- Developed scalable web apps using C# and ASP.NET MVC, improving performance by 70% and user satisfaction by 30% through responsive interfaces and seamless backend integration.
- Designed relational databases with SQL Server, reducing query execution time by 40% and improving overall system performance by 35% through efficient schema design and SQL queries.
- Built dynamic single-page apps (SPAs) with Angular, increasing user engagement by 35% and reducing page load times by 50% through effective client-side logic and data binding.

Programming Intern at Baze University   *Jul 2015 - Jan 2016*

- Developed and maintained dynamic web apps 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
- Developed and implemented RESTful APIs that improved data communication between front-end and back-end systems, reducing response time by 40% and enhancing user experience
- Assisted in database design and optimization by writing complex SQL queries and managing data migrations, leading to a 40% reduction in query execution time and improved database performance.

EDUCATION

Nile University of Nigeria   **Abuja, Nigeria**
PhD, Computer Science   *Graduation Date: Nov 2024*
MSc, Computer Science   *Graduation Date: Nov 2019*

Baze University   **Abuja, Nigeria**

BSc, Software Engineering   *Graduation Date: Oct 2017*

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Python, C++, C#, PHP, SQL.

Databases: MySQL, MongoDB, MSSQLSERVER, PostreSQL, Firebase.

Frameworks & Libraries : NextJS, ReactJS, ExpressJS, Laravel, .NET, Django, Natural Language Toolkit (NLTK), TensorFlow, PyTorch

Verion Control: Git, GitHub

AI : Machine Learning, Deep Learning, Natural Language Processing (NLP)

Development Methodology: Agile (Scrum and Kanban)

SELECTED PROJECTS

Ttile: University Management System for Olivia University, Bujumbura.

Tools: ReactJS, ExpressJS, MySQL, NodeJS

Title: Secured Document Management System for e-citizenship & business portal

Tools: ASP.Net, C#, MSSQLSERVER, AngularJS, SignalR.

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

Tools: ASP.Net, C#, MSSQLSERVER, AngularJS.

Ttile: Mobile Based Gym Application with personalized workout and diet plan.

Tools: ReactJS, ExpressJS, MongoDB, NodeJS, React Native.

SELECTED RESEARCH PUBLICATIONS

Title: Improving the Accuracy of Animal Species Classification in Camera Trap Images Using Transfer Learning.

Conference: 2024 International Conference on Artificial Intelligence, Computer, Data Sciences and Applications.

Title: Deep Learning for Osteoporosis Classification Using CNN on Knee Radiograph Dataset.

Journal: Journal of Research in Medical and Dental Science, 2023.

Ttile: Parameter Fine-Tuning with Transfer Learning for Osteoporosis Classification in Knee Radiograph.

Journal: International Journal of Advanced Computer Science and Applications, 2022.