



Woraiyibapri Hearty Alapher

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📖 <https://stackoverflow.com/users/10319317/woraiyibapri-hearty-alapher>

PROFILE

I am a dynamic professional with a diverse skill set, extensive experience, and a genuine enthusiasm for innovation in Software Engineering, Database Engineering, and Geospatial Technologies.

PROFESSIONAL EXPERIENCE

Snr. Database Engineer, Symphony Solutions

2022 – 2023

Boston, USA

- ✓ Designed and implemented high-performance and scalable database systems to support online gaming applications.
- ✓ Developed and implemented strategies for database backup, recovery, and disaster recovery to ensure data availability and minimize downtime.
- ✓ Monitored and analyzed database performance metrics to identify performance bottlenecks and optimize database performance.
- ✓ Collaborated with development teams to design and implement new features and functionality in gaming applications.
- ✓ Developed and maintained database security policies and procedures to protect sensitive player data from unauthorized access and cyber threats.
- ✓ Stayed up-to-date with emerging database technologies and best practices, and implement new technologies as appropriate to improve performance, scalability, and reliability of gaming databases.

Snr. Azure Software Engineer, Silkflo Limited

2022 – 2022

London, England

- * Development of Multi-tenant RPA Application
- I successfully architected and spearheaded the development of a cutting-edge multi-tenant Robotic Process Automation (RPA) Microservice Application. Leveraging technologies such as ASP.Net Core, DAPR, Docker, and Azure Functions, I designed and implemented a scalable solution that seamlessly integrates with the Microsoft Azure platform.
- ✓ Designed and implemented the distributed architecture for the application, enabling seamless scalability and high availability across multiple tenants
- ✓ Utilized DAPR's building blocks and state management capabilities to simplify the development process and improve overall application performance
- ✓ Leveraged Docker containers to improve deployment efficiency and provide a consistent runtime environment for the application
- ✓ Deployed the application on Microsoft Azure, utilizing various Azure services including Azure Container Instances, Azure Kubernetes Service, and Azure DevOps for continuous integration and deployment
- ✓ Successfully delivered the application, meeting all requirements and exceeding customer expectations for reliability and scalability.

Snr. GIS Software Engineer, Cyphercrescent Limited

With a passion for utilizing GIS technology to solve real-world problems, I have extensive experience in developing production geology and well integrity management systems. My expertise includes:

- ✓ Developing 2D and 3D data visualization using industry-standard GIS tools and software, including top structure maps and faults, bubble maps, well tops, well attributes, and well placement.
- ✓ Designing and developing custom GIS applications to streamline the well integrity management process for oil and gas servicing companies, resulting in significant time and cost savings.
- ✓ Implementing ArcGIS Enterprise and integrating it with existing IT infrastructure for seamless data exchange between different systems.
- ✓ Conducting GIS training sessions for internal staff and external clients to provide hands-on experience and in-depth knowledge of GIS concepts and tools.
- ✓ Proficiency in data import and export, including developing a service to import and export diverse ASCII file types supported by Petrel, a popular oil and gas industry software package.
- ✓ Research interests in computational geometry, production geology, and data visualization.

Spatial Database Engineer, GIS Transport Limited

* GIS Land Administration System (Merlin)

- ✓ Co-developed a web-based GIS Land Administration System, contributing to the efficient creation of geodatabase tables as part of the database administration team
- ✓ Administered Enterprise Spatial database for Land Administration using Python for Both Arc GIS and QGIS Desktop Platforms
- ✓ Created and Loaded Geographic Data in PostgreSQL/PostGIS and MSSQL Server/Spatial Data
- ✓ Created User Roles and Permissions for Accessing Geographic Data
- ✓ Created a Maintenance ArcPy/PyQGIS Script to be run on OS Scheduler for Regular Geo-database maintenance/backup
- ✓ Periodic Geo-database Compression
- ✓ Constance Improvement and Maintenance of Geo-database
- ✓ Disabling Geo-database Access Rights/Privileges of a Resigned/Sacked Employee

Software Developer, GistMe World Wide Network

- ✓ As a web developer, I have designed and developed numerous web applications such as the GISTMe Training Website, Linnet Paul Innovation Institute Website, and several others.
- ✓ In my role as an administrator, I have successfully managed a video-on-demand training infrastructure that enabled students to access and download lectures they missed at Linnet Paul Innovation Institute.
- ✓ I have also managed various online training programs and served as a co-trainer for executive and corporate clients interested in learning about software development and database management systems.

Instructor - Software Engineering Department, Linnet Paul Innovation Institute

- ✓ Teaching of Software Engineering Courses such as Java Programming Language, Database Management System, Principles of Compiler Construction, Web Designing and Discrete Mathematics.
- ✓ Key Contributor in reviewing Academic Curriculum of the Software Engineering Department in order to be approved by NBTE
- ✓ Development of new course programmes, and also training of corporate staff of the civil service.

2019 – 2022
Port Harcourt, Nigeria

2017 – 2019
Kaduna, Nigeria

2014 – 2016
Yenagoa, Nigeria

2012 – 2014
Yenagoa, Nigeria

SKILLS

Database Administration (SQL Databases (MSSQL/Spatial Data, PostgreSQL/PostGIS, MySQL, Sqlite, Oracle), NoSQL Document Databases (MongoDB, Cassandra), NewSQL Databases (CockroachDB), Spatial and Distributed Databases)

Data Modelling Tools (Visual Paradigm, Microsoft Visio) | **Others** (Redis, gRPC, DAPR, RabbitMQ, Apache Kafka)

Programming Languages (C# (ASP.Net Core, WPF, WebView 2), Python(Geopandas, PyQGIS), Java (JSP, Spring boot))

CI/CD (Github Workflow, CircleCI) | **Data Warehousing** (Snowflake) | **Source Control** (Git, TortoiseSVN)

Data Analytics (ML.Net. Math.Net.Statistics, PowerBI, Tableau, Numpy) | **Cloud Hosting** (MS Azure, AWS)

Geospatial Technologies (QGIS, Open Layers, Leaflet, MapBox, MapServer, Geoserver, ArcGIS API, Google Earth Engine)

Functional Testing Frameworks (Selenium, Cypress) | **Containerization & Orchestration** (Docker & Kubernetes)

Frontend Frameworks (vue.js, bootstrap, tailwind css, vuetify) | **ORMs** (Dapper, EF Core, Fluent Nhibernate)

BUG/TASK TRACKING TOOLS (ClickUp, Azure Kanban) | **Unit Testing Frameworks** (xUnit, NUnit, Jest, JUnit, pytest)

DB Monitoring Tools (PosgreSQL(pg_stat_monitor), MSSQL (SQL Server Profiler), MongoDB Monitoring Service)

EDUCATION

M.Sc Computer Science, University of Benin	2016 – 2018 Benin City, Nigeria
B.Ed Computer Science, Ignatius Ajuru University of Education	2008 – 2012 Port Harcourt, Nigeria

PROJECTS

SEPAL ANALYTICAL SYSTEM	May 2023
RPA (ROBOTIC PROCESS AUTOMATION) APPLICATIONS	May 2022
WELL INTEGRITY MANAGEMENT SYSTEM	Jan 2021
MEDIA HEALTH ANALYSIS SOFTWARE SYSTEM	May 2020
PRODUCTION GEOLOGY APPLICATION	Mar 2019



CERTIFICATES

- BASIC AND ADVANCE - E-LEARNING CERTIFICATIONS

AWARDS

EMPLOYEE OF THE YEAR, GIS TRANSPORT LIMITED, GIS Transport Limited	2018
EMPLOYEE OF THE YEAR LINNET PAUL INNOVATION INSTITUTE, Linnet Paul Innovation Institute	2014

PUBLICATIONS

CROSS-CATEGORICAL BUSINESS ANALYTIC SOFTWARE PREFERENCE AND EVALUATION SYSTEM FOR THE NIGERIA OIL AND GAS INDUSTRIES 	Apr 2023
COMPARING THE RELATIVE POPULARITY RATINGS OF OPEN SOURCE AND LICENSED PROPRIETARY SOFTWARE PACKAGES: A CASE ANALYSIS OF LINUX AND WINDOWS USING THE DELPHI TECHNIQUE	Feb 2022
A MEMETIC MODEL FOR PREDICTIVE BABY SEX DETERMINATION THROUGH THE FUSION OF CHROMOSOMES 	Apr 2017