



Woraiyibapri Hearty Alapher

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📄 PROFILE

As a Fullstack Engineer, I possess a versatile skill set, considerable expertise, and a sincere passion for developing groundbreaking solutions in the realm of software engineering, while infusing them with a geospatial twist to unleash innovation

🧠 SKILLS

ORMs (Dapper, EF Core, Fluent Nhibernate) | **CI/CD** (Github Workflow, CircleCI) | **Data Warehousing** (Snowflake)

Geospatial Technologies (QGIS, Arc GIS Desktop, Open Layers, LeafletJs, MapBox, MapServer, Geojson, Geoserver, ArcGIS API for Javascript, Google Earth Engine, GeoAI, NetTopologySuite)

Programming Languages (C# (ASP.Net Core, MVC, Web API, SignalR, Razor, Blazor, WPF, Windows Form, WebView 2), Python(Geopandas, PyQGIS, ArcPy), Java (JavaFX, JSP, Spring boot))

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

Source Control (Git, TortoiseSVN) | **Frontend Frameworks** (vue.js, bootstrap, tailwind css, vuetify)

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

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

Data Modelling Tools (Visual Paradigm, Microsoft Visio) | **Unit Testing** (xUnit, NUnit, Jest, JUnit, pytest)

TRACKING TOOLS (ClickUp, Azure Kanban, Asana) | **Containerization & Orchestration** (Docker & Kubernetes)

Others (Redis, gRPC, DAPR, RabbitMQ, Apache Kafka)

ETL (Extract, Transform, Load) Tools (Apache Kafka Connect, Talend, Informatica PowerCenter)

End-to-End Testing (Selenium, Cypress) | **Web Fundamentals** (HTML, CSS, Javascript, Typescript)

Database Security, Auditing & Compliance (Database firewall setup, Audit trail implementation, Vulnerability assessments and penetration testing, Data encryption techniques, Database access control, Compliance standards)

Disaster Recovery and High Availability (Database backup and restore strategies, Replication and clustering technologies, Failover and failback mechanisms)

📁 PROFESSIONAL EXPERIENCE

Snr. Software Engineer, Symphony Solutions

2022 – 2023

✳ Poker Game Development

Boston, USA

✓ Designed and implemented high-performance and scalable database systems to support online gaming applications.

✓ Collaborated with development teams to design and implement new features and functionality in gaming applications.

✓ Worked closely with cross-functional teams to understand requirements and translate them into scalable and efficient database structures.

- ✓ Contributed to the development of new features, ensuring seamless integration with the existing database infrastructure
- ✓ Monitored and analyzed database performance metrics to identify performance bottlenecks and optimize database performance

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 Engineer, Cyphercrescent Limited

2019 – 2022
Port Harcourt, Nigeria

* Structured Engineering Presentation & Analytics Leverage (SEPAL)

- ✓ Developed 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.
- ✓ Designed and developed custom GIS applications to streamline the well integrity management process for oil and gas servicing companies, resulting in significant time and cost savings.
- ✓ Implemented ArcGIS Enterprise and integrating it with existing IT infrastructure for seamless data exchange between different systems.
- ✓ Conducted 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.
- ✓ Researched majorly on computational geometry, production geology, and data visualization.

GIS Engineer, GIS Transport Limited

2017 – 2019
Kaduna, Nigeria

* 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 Geodatabase 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

2014 – 2016
Yenagoa, Nigeria

* Web Application Development

- ✓ 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 Software Engineering Courses

✓ 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.

2012 – 2014
Yenagoa, Nigeria

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