WORIAYIBAPRI HEARTY ALAPHER

📍 Port Harcourt, Nigeria

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🔗 Portfolio | LinkedIn | GitHub

PROFILE

I am an experienced Software Engineer with expertise in .NET, GIS, Cloud Computing, and AI-driven solutions. I have over 10 years of experience in designing scalable applications, leading teams, and integrating geospatial technologies. I am passionate about AI-driven analytics, DevOps automation, and enterprise software architecture.

PROFESSIONAL EXPERIENCE

Software Engineering Lead | Cyphercrescent Limited

📍 *05/2019 – Present | Port Harcourt, Nigeria*

- Led multiple development teams to deliver enterprise applications using .NET, Vue.js, and Azure.
- Designed and implemented clean architecture, SOLID principles, and TDD in front-end and back-end projects.
- Developed modular Vue.js applications, optimized performance, and implemented Jest unit testing.
- Designed and optimized .NET backend services (versions 6-9) using CQRS, DDD, and performance-tuned database queries.
- Integrated AI services for enhanced NLP, image recognition, and predictive analytics.
- Implemented CI/CD pipelines using Azure DevOps, automated deployments with Docker, and orchestrated services with Kubernetes.
- Developed and maintained Infrastructure as Code (IaC) using **Terraform, Bicep, and CloudFormation** for cloud resource management.

Senior Software Engineer | Symphony Solutions (Remote)

📍 *09/2022 – 04/2023 | United States of America*

- Developed WPF & .NET MAUI applications, focusing on 2D/3D visualization and UI performance.
- Designed MVVM-based smart UI components for a poker game and other interactive applications.
- Improved unit and integration testing processes to ensure high software quality.

Azure Software Engineer | Silkflo Limited (Remote)

📍 *04/2022 – 09/2022 | London, England*

- Led and developed a multi-tenant Robotic Process Automation (RPA) application using DAPR and Azure.
- Designed distributed architecture, ensuring scalability and high availability across multiple tenants.
- Implemented Docker-based microservices with Azure Kubernetes Service.

GIS Software Developer | GIS Transport Limited
📍 *05/2017 – 05/2019 | Kaduna, Nigeria*

- Developed GIS Land Administration System, optimizing spatial database structures.
- Designed a Customer Queue Management System (QMS) for streamlined service operations.
- Built an Automated File Tracking Management System (FTMS) integrating barcode technology.

Software Developer | GistMe Worldwide Network (Hybrid)
📍 *09/2014 – 12/2016 | Yenagoa, Bayelsa State*

- Developed various web applications, including training platforms and video-on-demand systems.
- Managed an online training infrastructure, ensuring seamless content delivery.

Instructor, Software Engineering | Linnet Paul Innovation Institute
📍 *11/2012 – 08/2014 | Yenagoa, Nigeria*

- Taught Java, DBMS, Compiler Construction, and Web Development courses.

SKILLS

Cloud & DevOps

- **Cloud Providers:** Azure (Blob Storage, Functions, Data Lakes, Kubernetes, DevOps CI/CD), AWS (EC2, S3, Lambda, Serverless, CloudFormation)
- **Infrastructure as Code (IaC):** Terraform, Bicep, CloudFormation
- **CI/CD Pipelines:** Azure DevOps, GitHub Actions, Jenkins
- **Containerization & Orchestration:** Docker, Kubernetes

Programming & Development

- **Backend:** C# (.NET Core, MVC, Web API, SignalR, Blazor, WPF), Python (FastAPI, Django), Java (JSP, JSTL, Servlet, Spring Boot, JavaFX), Node.js
- **Frontend:** Vue.js, React.js, Angular.js, JavaScript, TypeScript, CSS
- **Databases:** MSSQL, PostgreSQL/PostGIS, MySQL, SQLite, Oracle
- **API Development:** RESTful APIs, gRPC, GraphQL, API Gateway (Azure API Management, Kong, Nginx), Redis, RabbitMQ
- **ORMs:** Dapper, EF Core, Fluent NHibernate, JPA Hibernate, SQL Alchemy, Mongoose

Security & Authentication

- OAuth 2.0, OpenID Connect, IdentityServer
- JWT Authentication, OWASP Security Best Practices

Software Architecture & Design Patterns

- Clean Architecture, Microservices Architecture, Event-Driven Architecture, Domain-Driven Design (DDD), Vertical Slice Architecture

Geospatial Technologies

- QGIS (PyQGIS), ArcGIS (ArcPy), OpenLayers, Leaflet.js, MapBox, Google Earth Engine, GeoAI

AI/ML Integration

- OpenAI APIs (ChatGPT, Codex)
- Machine Learning with Azure ML, Semantic Kernel, TensorFlow
- AI-powered Geospatial Analytics (Deep Learning for GIS)

Testing & Tools

- Unit Testing: xUnit, NUnit, Jest
- Performance Optimization: Query Optimization, Indexing, Caching Strategies
- Application Performance Monitoring (APM): New Relic, Azure Application Insights

Version Control & Project Management

- Git, TortoiseSVN
- Jira, ClickUp, Azure Kanban, Asana

PROJECTS

Enterprise Planning Solution *(09/2023 – 2024)*

- AI-driven financial planning tool for enterprise budgeting and forecasting.

Well Integrity Management System *(01/2023 – 09/2023)*

- Predictive system for monitoring oil well integrity.

Business Forecasting Solution *(01/2022 – 12/2022)*

- Designed machine learning-based forecasting models.

Production Geology Application *(01/2021 – 12/2021)*

- Developed a GIS-integrated geological data visualization tool.

Health Insurance Information System *(07/2024 – Present)*

- Designed a web-based system for health insurance claims and tracking.

Queue Management System *(02/2018 – 05/2018)*

- Developed an automated system for managing customer service queues.

CERTIFICATIONS

- **Microsoft Certified: Azure Solutions Architect** *(Expected 2024)*
- **AWS Certified Solutions Architect – Associate** *(Completed 2024)*
- **GIS & Remote Sensing Certification (Esri, 2021)*

EDUCATION

🎓 **M.Sc Computer Science** | University of Benin *(2016 – 2018)*
🎓 **B.Ed Computer Science** | Ignatius Ajuru University of Education *(2008 – 2012)*

AWARDS & RECOGNITIONS

🏆 **Employee of the Year – GIS Transport Limited (2018)**

- Recognized for contributions to geospatial software development.

🏆 **Employee of the Year – Linnet Paul Innovation Institute (2014)**

- Awarded for excellence in software engineering education.

MEMBERSHIPS

- **Computer Professionals of Nigeria (CPN) (2019 – Present)**