

# WORAIYIBAPRI HEARTY ALAPHER

📍 Port Harcourt, Nigeria

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## PROFILE

Experienced Software Engineer with expertise in .NET, GIS, Cloud Computing, and AI-driven solutions. Over 10 years of experience designing scalable applications, leading teams, and integrating geospatial technologies. Passionate about AI-driven analytics, DevOps automation, and enterprise software architecture.

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## 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, Tailwind CSS, Bootstrap
- **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
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# 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.
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## **CERTIFICATIONS**

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

 **M.Sc Computer Science** | University of Benin (2016 – 2018)

 **B.Ed Computer Science** | Ignatius Ajuru University of Education (2008 – 2012)

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## **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.
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## **MEMBERSHIPS**

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