

Weyinmi Madamedon

Senior Full-Stack Engineer | .NET Architect | AI Engineer

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PROFILE

Lead Software Engineer with 7+ years of experience designing, developing, and delivering scalable enterprise software solutions across FinTech, Risk Management, Healthcare, AI, and Financial Services domains.

Proven expertise in .NET, ASP.NET Core, C#, React, Next.js, cloud-native architectures, microservices, and high-performance backend systems. Experienced in leading cross-functional teams, modernizing legacy platforms, architecting distributed systems, and delivering business-critical applications from concept through production deployment.

Strong background in AI-powered applications, workflow automation, Retrieval-Augmented Generation (RAG), Semantic Kernel, and intelligent decision-support systems. Passionate about solving complex business problems through scalable software architecture, automation, and data-driven innovation.

SKILLS

Programming Language & Frameworks: C#, ASP.NET Core, .NET MVC, Entity Framework Core, Web API, Blazor, JavaScript, TypeScript	● ● ● ● ●	Database & Messaging SQL Server, PostgreSQL, MongoDB, Redis (working knowledge), Caching Strategies	● ● ● ● ●
Frontend Technologies React, Next.js, Vue.js, TailwindCSS, HTML, CSS3	● ● ● ● ●	Cloud & DevOps Azure, AWS, Docker, Kubernetes, ASP.NET Aspire, CI/CD (Jenkins, GitLab CI/CD, GitHub Actions), Git version control	● ● ● ● ●
Architectures & Patterns Microservices, Modular Monolith, RESTful APIs, Caching, CQRS, Event-Driven Architecture, Distributed Systems.	● ● ● ● ●	Testing & Quality Assurance xUnit, Postman, Swagger, LINQ, Integration Testing, Automated Testing	● ● ● ● ●
Software Development Practices Code Review, Clean Code Architecture, SOLID Principles, Test-Driven Development (TDD)	● ● ● ● ●	AI Engineering and Automation OpenAI APIs, Semantic Kernel, RAG, AI Agents, Prompt Engineering, Workflow Automation, n8n, LLM Integrations, AI-Powered Decision Systems	● ● ● ● ●

PROFESSIONAL EXPERIENCE

Lead Software Engineer <i>Melios Ltd</i>	11/2024 – Present Ikoyi Lagos, Nigeria.
- Lead the architecture, development, and deployment of enterprise-grade software platforms serving business-critical operations. - Designed scalable backend systems, REST APIs, frontend applications, and cloud deployment pipelines. - Architected and delivered multiple web platforms from inception to production, including system design, implementation, testing, documentation, and deployment. - Refactored a legacy Risk Evaluation and Reporting Platform, improving system performance and reducing response times by approximately 40%. - Enhanced user experience by modernizing frontend components within ASP.NET Core MVC and Blazor-based applications. - Conduct code reviews, mentor engineers, and establish engineering standards across development teams. - Manage deployment pipelines and release processes using Azure DevOps. - Produce technical documentation, architecture diagrams, and implementation specifications.	

Backend Engineer (.NET / Payments Systems)

Harmonics Technology (Remote) [🔗](#)

07/2024 – 11/2024

Lagos, Nigeria

- Led code reviews and enforced coding standards across a large-scale payment service library project, potentially impacting over one million users by enhancing code reliability and maintainability.
- Contributed to the development of the widely-used Mono API library, integrating feedback and refactoring code to improve efficiency, especially within financial applications.
- Played a critical role in validating code segments, ensuring quality and functionality in line with organizational standards.

Software Engineer

Decagon Institute

10/2023 – 04/2024

Lagos, Nigeria

- Facilitated cross-functional collaboration to improve development cycles, providing constructive feedback on code and driving best practices.
- Enhanced code quality and user engagement in an ASP.NET Core project by integrating efficient coding practices, reducing page load time by 40%.
- Proficiently utilized autonomous tools, frameworks, and libraries to streamline code generation, augmenting productivity in project delivery.

Algorithmic Programmer, Technical Research Analyst

HyFEX Capital

06/2020 – 12/2022

Ibadan, Nigeria

- Designed and optimized over 50 algorithmic trading systems for market analysis and automated trade execution.
- Developed high-performance financial algorithms using C# and quantitative modeling techniques.
- Conducted technical research and strategy validation to improve trading performance and operational efficiency.
- Delivered scalable trading solutions capable of processing large volumes of financial market data.

PROJECTS

Patient Record Management System [🔗](#)

- Worked with a team in creating a healthcare web application that connects patients with healthcare professionals for informed and proper healthcare treatment.
- **Technologies:** ASP.NET Core, C#, React.js, Tailwind CSS, Axios, PostgreSQL.

Stocks Feed API [🔗](#)

- A live stock price update web app using ASP.NET [🔗](#) Core with SignalR for real-time data broadcasting.
- Leveraged **SignalR hubs** to manage persistent WebSocket connections, enabling low-latency updates without client-side polling.
- Technologies: **C#, ASP.NET [🔗](#) Core, SignalR.**

Payment Service Integration Library

- Developed scalable library components to support local banks, adhering to regulatory standards and achieving high-throughput transaction processing.
- **Technologies:** C#, ASP.NET Core, SQL Server, Azure

Reward Your Teachers Web Application

- Collaborated with a skilled software development team to create an intuitive web application, enabling students to express appreciation with cash gifts to their teachers through a payment service.
- **Technologies:** ASP.NET Core, EF Core, C#, HTML, CSS, JavaScript, Bootstrap, PostgreSQL, Cloudinary, and Paystack payment service.

Log Analyzer Library [🔗](#)

- A C# implementation of a Log Analyzer Library that provides functionalities for analyzing logs in multiple directories.
- **Technologies:** C#, ASP.NET, Swagger UI, LINQ.

AI Chat Bot [🔗](#)

- Developed a conversational AI web application that processes user input, sends it to the OpenAI API, and returns relevant, contextual responses.
- Technologies: **ReactJS, OpenAI API, Razor Pages, REST API**

EDUCATION

M.Sc./Mathematics

University of Ibadan

- Specialized in Algebraic Topology.

04/2018 – 11/2021

Ibadan, Nigeria

B.Sc./Mathematics

University of Ibadan

- Specialized in pure mathematics
- Graduated in the top 20% of the class.

01/2012 – 11/2016

Ibadan, Nigeria

WASSCE

Command Secondary School Ibadan

- Had 8 distinctions in subjects offered
- Graduated in the top 10% of the class

10/2006 – 07/2011

Ibadan, Nigeria

CERTIFICATES

Certified Scrum Master (CSM)

Scrum Fundamentals Course

Full-stack Engineer (C#,

ASP.NET, React, Next.js)-

Decagon Institute

AWARDS

First Runner-Up - Microsoft AI Skills Week Hackathon (Lagos, Nigeria)

07/05/2026

Microsoft

- 2nd Place Winner – Microsoft AI Skills Week Hackathon (2026) for designing and developing an AI-powered Telco Pilot for managing and optimizing Network Operational Centres for Telcos.