Edrine Mwesigwa

Full Stack Web Developer | AI Integration Engineer

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Education

- 🎓 BSC Information Technology
- 📜 Diploma in Computer Science
- 📋 Certificate in Computer Science
- 🔌 CCNA

Work Experience

Software Engineer

Multi Level Technology, Abu Dhabi | March 2020 – Present

- Initially joined as an IT Support Specialist, stationed at RTA premises in Dubai, providing technical assistance for smart teller machines and public service kiosks.
- Transitioned into software development after three years, now working from the main office on full-stack enterprise systems and AI-powered applications.

- Contributed to government portals, financial platforms, and internal dashboards using Angular, .NET Core, SQL Server, and Clean Architecture.
- Led development and maintenance of key modules across HRMS, WPS systems, and access control platforms, integrating third-party services like UAE Pass, MOHRE, MoneyGram, and Passdock.
- Designed CI/CD pipelines using GitHub Actions and Docker, implemented secure authentication flows, and optimized backend APIs for performance and scalability.
- Actively maintain and evolve live systems, delivering new features, resolving bugs, and aligning technical solutions with business requirements.

Portfolio Architecture

This portfolio is more than a showcase — it's a reflection of my transition from manual coding to AI-assisted engineering. I now leverage prompt engineering and AI orchestration to scaffold full-stack systems with speed, precision, and architectural consistency.

- **Frontend:** Built with HTML, CSS, and vanilla JavaScript for lightweight rendering. Angular and React are used in demo projects to showcase dynamic UI capabilities.
- **Backend:** Projects span .NET Core APIs, Node.js microservices, and FastAPI endpoints — many scaffolded using AI tools based on BRDs or pseudocode inputs.
- **AI Integration:** I use OpenAI and LangChain to interpret business logic, generate modular codebases, and automate repetitive development tasks.
- **CI/CD Pipeline:** Configured GitHub Actions with YAML workflows for build, test, Docker image creation, and registry push. Secrets are managed securely via GitHub Secrets.
- **Containerization:** Dockerized applications for consistent deployment across environments. Compose files manage multi-service orchestration.
- **Database:** SQL Server and MongoDB are used across projects, with vector DBs (Pinecone, Weaviate) integrated for AI-powered search and matching.
- **Deployment Strategy:** Projects are staged for deployment via Docker registries and cloud environments. Future iterations will include auto-deploy pipelines and serverless endpoints.

Technical Skills

Languages: C#, TypeScript, JavaScript, Python, SQL

Frontend: Angular, RxJS, NgRx, Bootstrap, Tailwind, React

Backend: .NET Core, ASP.NET MVC, FastAPI, REST APIs, EF Core, LINQ

AI Integration: OpenAI API, LangChain, Prompt Engineering, Semantic Kernel

DevOps & CI/CD: GitHub Actions, Docker, Kubernetes, IIS

Architecture: Clean Architecture, CQRS, JWT, DI, Microservices

Database: SQL Server, MongoDB, MySQL

Tools: Git, GitHub, Postman, Swagger, VS Code, Visual Studio, TFS

Highlighted Projects

Autograph Salary/WPS System: Enterprise-grade salary and WPS compliance platform built on microservices architecture. Tech: Angular 16, .NET Core, SQL Server, JWT, RabbitMQ.

Ajman E-Services Portal: Digital services platform for government workflows. Tech: Angular, .NET Core, SQL Server, Clean Architecture.

RTA Services Portal: High-traffic portal for fine inquiry and vehicle registration. Tech: Angular, .NET Core, SQL Server, REST APIs.

Multi-Level HRMS: HR management system with attendance and payroll. Tech: ASP.NET MVC, SQL Server, JavaScript.

Khalifah Fund QR Pass System: Access management for government premises. Tech: ASP.NET MVC, .NET Core, SQL Server.

Delma Exchange Financial System: Forex platform with remittance processing. Tech: Angular, .NET Core, SQL Server.

Autograph Website: Demo financial services site. Tech: HTML, CSS, JavaScript, .NET Core, MongoDB.

AI-Powered Resume Screener: Application for matching resumes to jobs.

Tech: .NET 9, Angular 20, MongoDB, OpenAI.