

Mohamed Dewidar

Backend Software Engineer | Computer Engineering Graduate

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Summary

Backend Software Engineer specializing in high-performance distributed systems using **.NET 9**, **C#**, and **SQL Server**. Experienced in architecting scalable solutions with **Clean Architecture**, **CQRS**, and **Event-Driven Microservices**. Proficient in cloud-native infrastructure with **AWS** (S3, SQS, SNS), containerization via **Docker**, and CI/CD automation. Skilled in solving complex concurrency challenges and implementing asynchronous messaging using **RabbitMQ** and **Redis** to deliver resilient, low-latency applications.

Experience

Backend Developer Intern — Elevate Tech, Cairo, Egypt Aug 2025 – Dec 2025

- Developed a production-grade **.NET 9 Web API** for an online examination platform using **Vertical Slice Architecture (VSA)**, **CQRS** with **MediatR**, and the **Generic Repository Pattern**.
- Engineered a distributed **Order Service** for an e-commerce platform, implementing the **Saga Orchestrator pattern** to manage complex multi-service transactions and ensure eventual consistency across microservices.
- Built a full **Fitness Microservices App** using **.NET 9**, **RabbitMQ** with **MassTransit**, **Entity Framework Core**, **SQL Server**, **Redis**, and **Docker**. Implemented microservice communication via **message-based workflows** and developed **containerized services** following **Vertical Slice Architecture** principles.
- Collaborated with senior engineers through **code reviews**, gained hands-on experience with **CI/CD** practices, and adhered to team coding standards.

DevOps Diploma Trainee — Route Academy, Online/Hybrid Feb 2025 – Sep 2025

- Focused on **AWS**, **Terraform**, **Kubernetes**, **Prometheus**, and **Grafana**.
- Deployed microservices-based web apps (**Flask + React + PostgreSQL**) to **AWS EC2** using **Docker**, **Ansible**, and **GitLab CI/CD**.
- Automated **LAMP stack** deployments with **Ansible** and deployed **React** apps to **AWS S3** via **CloudFront CDN**.

Backend Web Development Trainee — Route Academy, Online Sep 2024 – Jun 2025

- Built advanced server-side applications using **ASP.NET Core**, implementing **Clean Architecture**, **Onion Architecture**, and **N-Tier Architecture**.
- Developed an **E-commerce API** with **.NET 9**, **SQL Server**, **Redis**, **JWT**, and **Stripe** integration.
- Applied **repository and specification patterns**, and **containerized** components with **Docker**.

Software Testing Trainee — Machinify Training Center, Online Jun 2024 – Nov 2024

- Trained on **ISTQB** principles, manual and **API testing** with **Postman**, and automation using **Rest Assured** and **Selenium**.
- Worked on real-world tasks and test scenarios to apply testing methodologies.

Embedded Linux Trainee — IMT, Online/On-site Jul 2024 – Oct 2024

- Completed 124-hour training on **Linux administration**, **C++**, **Qt**, **Raspberry Pi**, **device drivers**, and **Yocto**.
- Developed a multithreaded **Qt-based web server** with **WebSocket** communication and encryption.

Frontend Web Development Trainee — Route Academy, Online Mar 2024 – Sep 2024

- Developed a full-featured **E-commerce** web application using **React.js**, integrating third-party APIs for products and cart functionality.
- Built a **Game Gallery Store** and a **Meals Explorer App** by consuming external APIs to enable dynamic searching, filtering, and display of data.

Software Testing Training Program — ITI, Remote

Aug 2024 – Sep 2024

- Completed a focused program on **performance, mobile, and API testing**.
- Gained practical exposure to **security testing, Agile methodologies, and ISTQB** principles.

Agile Methodologies Training — ITI, Online

Sep 2024

- Completed **Agile**-focused training including **XP, Scrum, and sprint planning**.
- Simulated a complete software development **sprint cycle** to apply **Agile** practices.

HCIA Cloud Computing Trainee — Huawei + NTI, On Site

Aug 2024

- Received training on **cloud computing fundamentals, networking, virtualization, and server setup**.
- Worked with **EulerOS** and **FusionCloud** to manage **VMs** and cloud environments.

IoT Trainee — ITI, Remote/On-site

Jul 2024

- Gained practical training with **sensor hardware** and **device-level programming** for **IoT** applications.

Projects

Graduation Project – AegisDrive: Event-Driven Advanced Driver Monitoring & Safety System

- **Awarded 3rd place in the Cairo AI Hackathon (Dec 2025)**, leading a 4-man team (“AegisDrive”) to secure a **50,000 EGP prize** for innovative AI-driven fleet safety solutions.
- Designed and implemented an event-driven microservices architecture using **.NET 9** with edge-to-cloud data ingestion for real-time driver monitoring.
- Developed a high-performance computer vision pipeline in **C++ using dlib and OpenCV**, achieving a **95% accuracy rate** in identifying driver drowsiness and distraction patterns.
- Secured **10,000 EGP** in initial research funding and achieved 3rd place in Nile University’s UGRF Business Model Competition.

Technical Skills

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

Frameworks: ASP.NET Core, .NET 9, React.js, Qt Framework

APIs & Protocols: RESTful APIs, WebSockets, JWT Authentication, Stripe API

Tools & Systems: Linux Administration, Git, CI/CD Tools, Redis, Raspberry Pi

Cloud & DevOps: Docker, Kubernetes, AWS (S3, EC2, SNS, SQS), Terraform, Ansible, GitLab CI/CD

Testing Tools: Postman, Selenium, Rest Assured, Swagger

Methodologies: Agile, Scrum, Clean Architecture, Microservices, SDLC

Education

Nile University, Giza, Egypt

Bachelor of Science in Computer Engineering

September 2021 – Jan 2026 | GPA: 3.6

Royal House Language School, Egypt

National Diploma, 2021