Mohamed Halawa

Backend Software Engineer

hello@mohamedhalawa.com github.com/imhalawa linkedin.com/in/imhalawa

Backend engineer with seven years in .NET. I build and operate event-driven services on AWS for payments, promotions and insurance at Coolblue. Earlier, I built clinical desktop software and payment integrations for a digital wallet.

Experience

Coolblue Feb 2024 – present
Backend Software Engineer

Built payment events with whole-order delivery and selective replay. Joined late provider notifications to transaction records. Built insurance APIs and contract tests and helped move quotes to DynamoDB. Delivered discount codes, cross-device checkout, authorization and audited bank-data access. Moved account pages to Next.js and refunds to terminals with safe retries. Designed digital gift-card delivery and tuned abuse limits. Established integration testing, led a Datadog review, designed a Kafka-to-BigQuery pipeline and started a design forum.

Integrant, Inc. Jan 2023 – Jan 2024
Software Engineer II

Fixed desktop freezes with PerfView, integrated dispensing hardware through WCF, built SQL-to-Excel reporting and a field-technician interface, and documented the architecture for remote teams.

Cegedim Jul 2021 – Jan 2023
Software Engineer II

Built feature flags, integrated React into WPF and tested both with WinAppDriver and Selenium. Shipped dispensing and therapy plans, extended clinical integrations, coordinated rollouts, onboarded engineers and delivered technical talks and client demos.

Lumin Soft Mar 2020 – Jul 2021
Software Engineer I

Built a digital wallet and identified security gaps, developed a multi-client supply-chain platform, integrated Cowpay subscriptions and introduced SonarQube, Git Flow, pull-request reviews and Azure Pipelines.

ERTAQY Jan 2019 – Mar 2020
.NET Developer

Built an ASP.NET attendance system and improved a SQL Server-backed content management platform.

Technical skills

Languages · C#, Java, SQL, TypeScript

Backend and APIs · .NET, REST APIs, GraphQL, MCP, WCF

Web and desktop interfaces · React, Next.js, WPF

Data and messaging · PostgreSQL, Oracle, SQL Server, MySQL, DynamoDB, BigQuery, Dapper, Flyway, SQS, SNS, EventBridge, Kafka

Cloud and delivery · AWS Lambda, S3, EC2, ECS Fargate, RDS, API Gateway, KMS, Secrets Manager, CDK, Docker, TeamCity, Azure Pipelines, CI/CD

Quality and observability · Integration, API contract and end-to-end testing, Datadog, Serilog

Architecture · Distributed and event-driven systems, hexagonal architecture, transactional outbox, claim-check, idempotency, eventual consistency, microfrontends, design systems, feature flags, rule engines

Security · Authentication and authorization, role-based access control, secrets management, rate limiting, OWASP Top 10

Open-source work

Xpense · Self-hosted .NET/React ledger with browser-held keys and auditable multi-currency balances.

hevy-mcp · Local-first C# workout server with read-only defaults and dry runs.

OPMLark · Python and SQLite CLI for repeatable RSS/Atom-to-Markdown archives.

Roamer · Keyboard-driven Obsidian outliner.

TechJobsNL · Terminal-based vacancy tracker.

Education

B.Sc. in Computer Science
Mansoura University, Egypt
July 2018

Languages

Arabic · Native
English · Professional