

# MOHAMED HALAWA

Software Engineer. Backend Developer (.NET)

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## SKILLS

**Languages:** C#, TypeScript, SQL

**Frameworks & Tools:** .NET Core, ASP.NET Core, React.js, GraphQL, Entity Framework, LINQ, Docker, Redis, Dapr

**Databases:** SQL Server, DynamoDB, MongoDB

**Message Brokers:** RabbitMQ

**Essential Knowledge:** Java, Python, Kafka, Big Query, Oracle

**Cloud Platforms:** AWS (CDK, Lambda, DynamoDB, SQS, SNS, EC2), Azure

**Testing & CI/CD:** XUnit, NUnit, Fluent Assertions, Jenkins, TeamCity, Selenium, CI/CD

**Methodologies:** Agile/Scrum, Test-Driven Development (TDD), Git Flow, Code Reviews, Integration Testing

**Architecture & Design:** Clean Architecture, Domain-Driven Design (DDD), Microservices, RESTful APIs, Object-Oriented Programming, Design Patterns

## EXPERIENCE

### Backend Developer

Feb. 2024 – Present

Coolblue B.V. (Payments Domain)

Rotterdam, Netherlands

- **Led** the design of a Payment Session Service for multi-provider payment tracking, **improving transaction handling**.
- **Enabled** PIN refunds via Adyen, **enhancing the in-store customer experience**.
- **Played a key role in** Cover Genius API integration, replacing the **legacy insurance provider** and unlocking **new revenue** streams.
- **Contributed to** Buckaroo PayPerEmail API integration, **boosting subscription rates** for German customers.
- **Refactored** back-office service managing **103M+** legacy payment records, **improving data accuracy**, and **enabling analytics**.
- Streamlined CI pipelines, **increasing test coverage** and preventing regressions with Dockerized tests.
- Spearheaded the migration of My Discounts Page to Next.js/React, **improving the UI** for end users.
- Enhanced data analytics pipeline, **powering cross-team insights** into product insurability.
- **Ensured code quality** through thorough reviews and technical debt resolution, **accelerating feature delivery** and **reducing bugs**.
- **Skills:** C#, .NET Core, ASP.NET Core, GraphQL, RESTful APIs, XUnit, Fluent Assertions, Refit, AWS (CDK, Lambda, DynamoDB, SQS, SNS, EC2), Docker, CI/CD (TeamCity), DataDog, Big Query, Kafka, Oracle, LINQ, Microservices, Serverless, React.js, Agile/Scrum, Dapr.

### SOFTWARE ENGINEER II

Jan. 2023 – Feb. 2024

Integrant, Inc. (BD, ASTA / RxSafe, VisionRx) (Remote for US-based clients)

Cairo, Egypt

- **Delivered performance optimizations** and UI enhancements for healthcare products, improving **system stability** and **usability**.
- **Optimized UI navigation** in ASTA with a **hierarchical tree view**, enhancing **usability** for device technicians.
- **Reduced report export time** in ASTA by optimizing **SQL queries** for large datasets.
- **Introduced sealed package dispensing** in VisionRx, improving **drug dispensing accuracy** and **inventory consistency**.
- **Resolved GPU rendering bottleneck** in VisionRx, improving **performance** on low-end clinic devices.
- Created concise **system architecture documentation**, improving **alignment across remote teams**.
- **Skills:** C#, .NET Core, ASP.NET Core, T-SQL, LINQ, Entity Framework, Unit Testing, Debugging, Azure Pipelines

### SOFTWARE ENGINEER

Jun. 2021 – Jan. 2023

Cegedim (VisionAnywhere) (Remote for UK-based team)

Cairo, Egypt

- **Designed and implemented a company-wide feature toggle system** in collaboration with product management and the Head of R&D, accelerating release cycles and improving control over feature rollouts.
- **Streamlined knowledge capture methods** to reduce onboarding time by 30% and improve knowledge sharing.
- **Enhanced clinical decision support** by extending and maintaining Optum and OptimiseRx API integrations.
- **Crafted Repeat Dispensing and Therapy Plans features** in VisionAnywhere, elevating patient care for chronic diseases.
- **Presented a tech talk to 100+ attendees** on adopting Conventional Commits for consistent versioning and change tracking.
- **Skills:** C#, ASP.NET Core, React.js, SQL, RESTful APIs, Agile/Scrum, TDD, Git, Feature Toggles

### Jr. Full Stack Web Developer

Mar. 2020 – Jun. 2021

Lumin Soft

Cairo, Egypt

- Developed real estate and supply chain products and created an MVP for a digital wallet app.
- Integrated Cowpay payment gateway to support seamless in-app subscriptions.
- **Skills:** C#, T-SQL, LINQ, Angular, HTML, CSS, Bootstrap, JavaScript, TypeScript, ASP.NET Core, RESTful APIs, Azure Pipelines

### Intern. .NET Developer

Jul. 2019 – Mar. 2020

ERTAQY

Mansoura, Egypt

- Developed an HR system for attendance tracking, enhancing operational efficiency.
- Improved usability by maintaining and optimizing features in an existing CMS.

## EDUCATION

**Bachelor of Computer Science**, Mansoura University

2014-2018

## LANGUAGES

**Arabic:** Native proficiency, **English:** (Professional working proficiency)