

Mohamed Aboali

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Senior Full Stack .NET Developer

Experience **Software Developer** with **10+ years of experience** in designing, and building enterprise applications and upgrading legacy systems across **Higher Education, Automotive, and Government sectors**. Proven expertise in **full-stack development** using **.NET 6-8, Web APIs, JavaScript, jQuery, Angular, Entity Framework, SQL Server, and AWS**. Skilled in delivering scalable, high-performance solutions and leading developments, mentoring junior developers.

SDLC • SOLID • Web/Mobile/Desktop Development • Multi Tenancy • CQRS
Rest API • Front /Back End • Design Patterns • Microservices Architecture • Machine Learning

Languages: C#

Web: .NET 6-8, Web API, Asp.NET, JavaScript, jQuery, Bootstrap, W3CSS, Angular

Web Services: RESTful, .NET Web API, JSON, GraphQL

Web/App Servers: IIS, AWS

Frameworks: .NET Framework, Entity Framework, Angular, MSTest, AutoMapper

Databases: MS SQL Server, Redis, MongoDB, MySQL

Design Patterns: Factory, Singleton, Strategy, Builder, Proxy, Observable, Repository

SDLC: Agile, Waterfall

Tools: Git, GitHub, Postman, Team Foundation Server

Architecture: Microservices, MVVM, MVC

Cloud: Lambda, Dynamo DB, CloudFront, S3, IAM, Cloud Formation, Cloud Pipeline, EC2, EMR, Elastic Beanstalk

Additional Tools: React, Nodejs, Python, Flutter, Docker

PROFESSIONAL EXPERIENCE

GUC, New Cairo, Egypt • 11/2019 – 04/2024

Higher Education, *IT Department serving German University in Cairo, German International University, and GIU Berlin.*

Software Developer Team Lead • 11/2021 – 04/2024

- Led the design and development of a **Professional Networking Application** for the GUC and GIU community using .NET 8, JavaScript, SQL Server, and SignalR fostering collaboration among over **35,000 user**.
- Modernized a 15-year-old **Student Information System**, refactoring its repository, service layer, and frontend by migrating to .NET 6 and Bootstrap 5, resulting in a 3x increase in portal efficiency and improved maintainability.
- Directed the successful implementation of more than **25 conference websites** created by the university's design team, developing a robust CI/CD pipeline for efficient deployment using HTML5 and Bootstrap 4/5.
- Created a **mobile application** using Flutter, developing the backend with Ocelot API Gateway, GraphQL, REST APIs, .NET 6, and **Firestore Cloud Messaging**, resulting in significantly mobile usage more than 4 times.
- Mentoring a team of 3 junior developers and 7 Interns, assigning tasks, **offering mentorship**, and reviewing their work to ensure high-quality deliverables.

Senior Software Developer • 11/2019 – 11/2021

- Built key features for a **E-Learning platform**, using .NET Core 3, Bootstrap 4, SQL Server, and SignalR, enhancing the online learning experience and ensuring reliable communication during the **Covid-19 pandemic**.
- Integrated E-Learning platform and **VoD Dacast** (Video on Demand Platform) for uploading, streaming, and transcoding lecture videos; enabling the successful upload of about **17,000 videos** over a year.
- Developed the front end of an Online Assessment System using W3CSS, JavaScript, and HTML5, with integrated video and screen recording uploaded to AWS server, successfully serving exams for **15,000 students**.
- Engineered key features for the **Cash Flow System**, using .NET Core 5, Bootstrap 4, and SQL Server, delivering a streamlined digital budget tracking solution.
- Architected key features for the **Process Tracking System**, using .NET Core 5, Bootstrap 4, and SQL Server, delivering an efficient process for the university, tailored to its seasonal environment.

Technologies: .NET 6-8, SQL Server, JavaScript, jQuery, Bootstrap, W3CSS, TFS, GitHub, Flutter, Rest API, GraphQL, Ocelot.

UofC, New Administrative Capital, Egypt • 01/2019 – 11/2019

Higher Education, *Client: University of Prince Edward Island*

Senior Software Developer

- Successfully implemented a comprehensive **Power Campus** (Student Information System), streamlining access to academic information for over 1000 students. reducing manual processes by 40%.
- Integrated Power Campus with **Moodle E-learning system**, streamlining student data management, improving course delivery, and enhancing the overall learning experience by enabling seamless data synchronization.
- Developed a comprehensive **University Portal**, incorporating modules such as News, Events, Notifications, 360 evaluation, Campus Life, and Internship Listings using MVC .NET, *JavaScript*, SQL Server.

Technologies: *MVC .NET, jQuery, JavaScript, SQL Server, Entity Framework, WordPress, and TFS.*

GUC, New Cairo, Egypt • 07/2017 – 12/2018

Higher Education

Software Developer

- Constructed and implemented **Summer Course Registration** system using Asp.NET, Bootstrap 3, and SQL Server, significantly improving the efficiency and user experience of the registration process.
- Generated a student **Clinic Management System** with Appointment Scheduling, Questionnaire, and Check-Up features using Asp.NET Bootstrap 3, and SQL Server reducing processing time from **2 months to 3 weeks**.

Technologies: *Asp.NET, jQuery, Bootstrap 3, LINQ, TFS, and SQL Server.*

ISCC, Al Salam, Egypt • 01/2017 – 07/2017

IT Consulting & Software Development, *Client: Ministry of Manpower*

Software Developer

- Engineered a **Recruitment Management System** to automate job postings and application processing, streamlining workflows and significantly improving efficiency compared to previous manual methods.

Technologies: *Asp.NET MVC 5, Bootstrap 3, JavaScript, jQuery, Entity Framework, SQL Server, and TFS.*

CDCM Peugeot, Abbassia, Egypt • 12/2014 – 01/2017

Automotive

Junior Software Developer

- Innovated and launched a **Dealership Management System** that streamlined inventory tracking, resulting in an impressive fivefold increase in **profitability five times** for select centers over the first year of deployment.

Technologies: *Asp.NET, JavaScript, jQuery, LINQ, SQL Server, Telerik UI and TFS.*

CERTIFICATIONS

- AWS Certified Developer – Associate

EDUCATION

Master of Science in Computer Science

(In progress via online education; expected completion 12/2025)

Maharishi International University, Fairfield, Iowa

Master of Science in Computers & Systems Engineering

Ain Shames University, Abbassia, Cairo, Egypt (05/2023)

Bachelor of Science in Computer Engineering

Modern Academy for Engineering, Mokattam, Cairo, Egypt (07/2012)