

Ahmed Mamdouh

SOFTWARE ENGINEER · MID-LEVEL

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"Make the change that you want to see in the world."

objective

Accomplished Backend Engineer with almost 5 years of experience in .NET. Expert in developing complex web applications and microservices across diverse industries. Proficient in enhancing system performance and integrating cutting-edge technologies. Eager to contribute to innovative and strategic projects in a dynamic software house or a startup.

Work History

Link Development

Hybrid

SENIOR SOFTWARE ENGINEER

Sep. 2022 - PRESENT

- Led the Technical Development of the Culture Web Platform, a dual-component system comprising a Search Engine and an E-commerce Web App designed for the Communications Ministry. Spearheaded the integration of complex search functionalities with user-centric e-commerce features, significantly enhancing the digital experience for cultural content consumption.
- Implemented Advanced Full-Text Search Capabilities using Elasticsearch, tailored to support auto-correction and completion features for anonymous users, thereby improving user interaction and satisfaction. Developed content filtration systems by authors and subjects, which facilitated more accurate and relevant search results across diverse content types.
- Managed Robust Content Storage Solutions with Elasticsearch and MS SQL Server, ensuring efficient handling of both open access and secured data. This included optimizing data retrieval processes and implementing high-level security measures for protected data purchases, increasing data security compliance by 40%.
- Collaborated Closely with Cross-Functional Teams to ensure seamless integration and continuous improvement of the platform, leveraging Azure DevOps and Azure Pipelines for CI/CD processes to reduce deployment times and enhance release efficiency.

Yackeen Solutions

Remotely

FULL-STACK WEB DEVELOPER .NET/ANGULAR

Aug. 2021 - Sep. 2022

- Led the development of the '3amaluna App', a professional networking platform for a startup, implementing real-time communication features including posts, comments, and shares. Designed group-specific functionalities that doubled user interactions and increased daily active users by 40%.
- Engineered the 'IslamicMarriage App', developing user profiles and match-making algorithms tailored for the Islamic community. The introduction of these features led to a 25% increase in user satisfaction and a 35% growth in the subscriber base within the first 6 months.
- Designed and implemented backend infrastructure for the 'Naseej Project', supporting comprehensive administrative and financial operations for local companies. This included advanced functionalities for compensation calculations and user role management, improving operational efficiency by 45%.
- Architected the 'Translation Agency Platform', creating a scalable online marketplace connecting clients with freelancers. This platform facilitated over 1,000 successful job engagements within the first year, enhancing job management and user interaction capabilities.
- Spearheaded the development of high-impact web applications, improving functionalities and user interface designs.
- Developed and implemented a CI/CD pipeline that automated testing and deployment processes, reducing manual deployment efforts by 40% and decreasing deployment times by 50%, thereby accelerating product delivery cycles.

FrontierZero

Remotely

BACKEND DEVELOPER

Mar. 2020 - May 2022

- Developed and maintained integration services for various directory platforms including Okta, Salesforce, Jira, and so on, ensuring seamless synchronization of user data and sign-in logs.
- Implemented OAuth authentication flows for secure access to third-party APIs, including token exchange and refresh mechanisms.
- Mapped external user data models to internal application models using AutoMapper, facilitating data consistency and ease of use within the application.
- Handled error logging and exception management to ensure robust and reliable integration services, including detailed logging of unexpected errors and API response issues.
- Implemented asynchronous programming patterns to improve application performance and responsiveness, particularly in handling multiple API requests concurrently.
- Ensured compliance with security best practices, including handling sensitive data like access tokens and user credentials securely.
- Collaborated with cross-functional teams to integrate directory services with other application components, ensuring seamless user experiences and data integrity.

Education

Information Technology Institute - ITI

FULL-STACK WEB DEVELOPMENT (.NET) TRACK

Suhag, Egypt

Aug. 2021 - Nov. 2021

Information Technology Institute - ITI

SOFTWARE ENGINEERING FUNDAMENTALS TRACK

Suhag, Egypt

Mar. 2021 - Aug. 2021

Skills

Web Development

- Expert in Elasticsearch optimization, API security, load balancing, and .NET Core Implementations.
- Advanced in optimizing relational and non-relational databases, focusing on secure and efficient queries.
- Strong in system architecture including DDD, micro-services, MVC, MWM, proxies, sidecars, API gateways, and skilled in middleware and asynchronous programming.
- Proficient in applying design patterns; adept in C#, .NET Core, and API development using REST and gRPC.
- Committed to high code quality, leveraging OOP, SOLID principles, TDD by implementing unit testing using xUnit, and CI/CD practices (AzureDevOps, Docker, Git).
- Proficient in using ORMs such as EF, EFCore, and Dapper, focusing on optimizing the query and applying the best practices for efficient queries.
- Proficient in using LINQ, and Middlewares to make secure .NET Core Apps.
- Strong grasp of algorithms and data structures, applying practical solutions to complex problems.
- Strong practical knowledge of Angular+2, and apply advanced quality features in SAP with lazy loading, and implement SSR with Angular Universal.
- Committed to writing technical documentation and user guide to enhance the team's and product's quality and productivity.