Rozan Magdy | Software Engineer

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Summary:

• **Full-stack Software Engineer** with 3+ years of hands-on experience in both Microsoft (.NET) and JavaScript (MERN) ecosystems. Skilled in building scalable web applications, RESTful APIs, and enterprise-grade solutions using technologies like ASP.NET Core (MVC and MVVM), MS SQL Server, MongoDB, Express.js, React.js, and Node.js. Experienced in integrating API gateways and payment gateways to ensure secure and efficient communication between distributed services and external providers. Proficient in implementing scheduled tasks and background jobs to support business workflows and automation. Strong advocate of clean architecture and the service-repository design pattern for maintainable and testable codebases. Adept at agile development practices, version control, and CI/CD pipelines to enable rapid and reliable delivery across the full development lifecycle, including cloud deployment.

Education:

• Bachelor's degree | Computers and Data Science | Alexandria University, Egypt | Computer Science | 2023 | CGPA 3.83.
• Master's degree | Computers and Information Sciences | Ain-Shams University, Egypt | Artificial Intelligence | present.

Skills:

• **Software Engineering Fundamentals:** OOP, Problem Solving, Design Patterns, Data Structure, Algorithms and Agile/Scrum.
• **Backend:** NodeJS (ExpressJS-Socket.io-Nest), ASP.Net (Web Forms), ASP.Net Core (MVVM-MVC-Web APIS), Python (Flask) and Java.
• **Frontend:** HTML, CSS, JavaScript, ReactJS, SCSS, Bootstrap and Tailwind.
• **Databases:** SQL (PostgreSQL-MySQL-MSSQL), NoSQL (MongoDB-Redis-Solr), ORM (Sequelize-EFC) and ODM (Mongoose).
• **DevOps & Deployment:** Microservices, Nginx, Docker and Cloud Service Providers (Vercel-Azure).
• **Version Control & Collaboration:** Git (GitHub-GitLab) and API Testing (Postman).
• **Authentication and Authorization:** JWT and Identity. • **Unit Testing:** Jest.

Work Experience:

• **Software Engineer | Bibliotheca Alexandrina | 2024–present:** Developing web applications using .NET technologies.
• **Teacher assistant | Faculty of Computers and Data Science at Alexandria University in Egypt | 2023–2024.**
• **MERN Stack Developer | Sprints | 2022:** Developing and maintaining web applications using the MERN stack technologies.
• **Full Stack Developer | Upwork Freelance | 2022:** Developing and maintaining web applications using the MERN stack, Leveraged Docker to streamline development environments and containerize services for better scalability.

Projects:

• **BALIS – Bibliotheca Alexandrina Library Integrated System:** Contributed to the maintenance and enhancement of BALIS, the Bibliotheca Alexandrina's core library management system, supporting millions of records and global users. Played a key role in developing and optimizing new features across both the online catalog and backend services, improving system performance, scalability, and user experience. Collaborated with cross-functional teams to implement system upgrades and integrate international library standards such as MARC21 and Z39.50.
• **E-Commerce Website:** Developed a serverless e-commerce platform with full CRUD and an admin panel. Built RESTful APIs using Node.js, Express.js, MongoDB (Atlas), and Redis for caching. Used Nginx for load balancing, Docker for containerization, and deployed on Vercel with Sendinblue for email services.
• **Clinic Website:** Developed a serverless clinic system with Node.js, Express.js, and PostgreSQL. Built RESTful APIs for doctor scheduling and patient reservations, integrating Sendinblue for email notifications. Contributed to an admin panel for managing appointments and records. Deployed on Vercel.
• **E-Learning Platform:** Built a full-stack e-learning platform using ASP.NET Razor Pages and SQL Server. Developed an admin panel to manage courses, student enrollments, and quizzes. Implemented authentication using Microsoft Identity.
• **Fingerprint Detection System (Graduation Project):** Developed a fingerprint identification system for criminal investigations using SIFT for matching and CNN models for attribute prediction. Built with Node.js, Express.js (APIs), MongoDB, React.js.

Certifications:

• Node.js Certification | Udemy.
• Full Stack Web Development Certification | Sprints.
• Web Development Professional Track Certification | Udacity.
• Data Analysis Professional Track Certification | Udacity.
• Students Activity Certification | Hacker Rank.