Alyaa Gamal

BACK-END DEVELOPER

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OBJECTIVE

Computer Science student pursuing a Bachelor's degree in Computer Science, with hands-on experience in back-end web development, software development, and object-oriented programming. Skilled in building scalable, reliable, and high-performance web applications using frameworks like .NET and Node.JS. Strong analytical skills, effective troubleshooting, and a team-oriented mindset with experience collaborating across front-end and back-end teams. Eager to contribute to impactful projects, take on admin tasks, and grow in cloud-based environments that drive innovation and progress.

EDUCATION

Bachelor of Computer Science | 2022-2026
Benha University
- **Relevant Coursework:** Object-Oriented Programming, Data Structure, Algorithms, Software Engineering, Database, System Analysis
- GPA: 3.6

ACADEMIC EXPERIENCE |COURSES

.NET Full Stack Web Developer Trainee
Digital Egypt Pioneers Initiative – Benha Branch
- Gained hands-on experience in backend fundamentals using ASP.NET and Entity Framework.
- Worked on building RESTful APIs, handling databases, and implementing authentication.
- Learned frontend basics with HTML, CSS, and JavaScript to support full-stack integration.

MERN Stack Web Developer Trainee
Information Technology Institute (ITI) – El Minya Branch
- Trained in MongoDB, Express.js, React.js, and Node.js through project-based learning.
- Developed full-stack web applications with REST APIs and responsive UI.
- Practiced teamwork, Git version control, and Agile principles.

.NET Full Stack Web Developer Trainee
Information Technology Institute (ITI) – Benha Branch
- Built a real-world e-commerce platform using .NET and SQL Server.
- Focused on back-end development: authentication, CRUD operations, and API integration.

TECHNICAL SKILLS

- **Languages & Databases:** C#, C++, Java, Python, JavaScript, PHP, SQL.
- **Frameworks & Libraries:** .NET Core, ASP.NET MVC, Laravel, Node.JS.
- **Web Technologies:** HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript.
- **Tools & Platforms:** Git, GitHub, Visual Studio, VS Code, XAMPP, Postman.
- **Databases & DBMS:** SQL Server, MariaDB, MySQL, SQLite.
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Engineering Principles, Operating Systems, MVC Architecture.

PROJECTS

Game Library System
Laravel, MariaDB, Bootstrap, Tailwind CSS
- Built a Laravel-based game library system with secure authentication, admin controls, and game categorization.
- Used MVC architecture and optimized SQL queries to enhance server-side performance and scalability.
- Ensured backend reliability through validation, error handling, and testing.
- Troubleshot integration issues and worked with front-end components to complete system functionality.
- Team-Oriented Delivery: Coordinated with Front end developer to create a respnsive UI

E-commerce Application
.NET Core MVC, SQL Server, C#, Bootstrap
- Developed a scalable and high-performance e-commerce platform using .NET Core MVC and SQL Server.
- Implemented backend logic for user management, secure payments, and product operations.
- Optimized server-side code and queries to improve performance and reliability.

Python Book Loan System
Python, SQLite
- Developed a backend system in Python with SQLite for managing book loans, returns, and overdue tracking.
- Ensured data accuracy and reliability through input validation and logical checks.
- Troubleshot common user errors and tested edge cases for stability.
- Focused on clarity, maintainability, and performance for small-scale libraries.

<u>Java Gym Management System</u>

Java, MySQL

- Designed a Java-based gym management system with backend logic for user registration, attendance, and scheduling.
- Used MySQL to store and retrieve structured data efficiently.
- Focused on performance, error handling, and smooth interaction between backend and UI.
- Applied troubleshooting techniques during testing to ensure system stability.

Activities

- Participated in the **ECPC** Competitive Programming Contest, enhancing **problem-solving and algorithmic thinking under time constraints.**
- Completed the **.NET Full Stack Development Course** at **ITI**, gaining hands-on experience in backend architecture, REST APIs, and database integration.
- Participated in the **IEEE Front-End Development Course**, building foundational knowledge in UI development and client-server interaction.
- Currently enrolled in **the Digital Egypt Pioneers Initiative**, focusing on **scalable system design**, server-side logic, and collaborative development. This experience has strengthened my skills in **team collaboration, task prioritization,** and **effective communication.**
- Attending the **MERN Stack Web Development Course** at **ITI** – El Minya Branch, learning Node.js backend development, MongoDB database management, and Express.js server design while continuing to develop as a **fast learner, adaptable contributor, and self-motivated team player.**
- Recognized for being **reliable, responsible**, and committed to **professional growth** through continuous learning and proactive involvement in technical communities.

Languages

- **Arabic**: Native
- **English**: B2