MOHAMED WAEL ELTEIR

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Summary

Software engineer focused on building scalable applications and clean code, with knowledge in .NET and multiple programming languages. Skilled in delivering quality projects, while staying updated with industry trends and modern practices.

Education

Alexandria University   **September 2021 – May 2025**
Bachelor of Science in Computer Science   *GPA: 3.52*

Saint Marc College   **May 2007 – August 2021**
Diploma   *GPA: 2.83*

Professional Training

Coach Academy | 🌐   **April 2024 – October 2024**
Competitive Programming
- Participated in a 6-month training program focusing on competitive programming and problem-solving.
- Enhanced and learned advanced algorithms and data structures.
- Achieved a 1100+ rating on Codeforces.

Information Technology Institute (ITI)   **August 2024 – September 2024**
Open Source Development track
- Engaged in a 6-week training program centered on open-source development and software engineering principles.
- Developed a strong foundation in software engineering and open-source development.

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

Technical Skills

Languages: C#, Java, C++, GO, Python, JavaScript, TypeScript, Julia
Technologies/Frameworks: ASP.NET, xUnit.NET, Jenkins, Jira, Docker, Git, GitHub, Postman
Programming Concepts: Object Oriented Design and Programming, Data Structures, Algorithms
Database Management Systems: MS SQL, MySQL

Experience

Upwork   **August 2019 – March 2020**
Software Developer Freelancer   *Remote*
- Designed and implemented 5 websites for 2 clients, which continue to be actively used.
- Assisted clients with enhancing their existing websites by integrating new features. Which resulted in a 20% increase in user engagement.

Projects

AdminKeyAPI | *.NET 8* | ⭘ GitHub   **August 2024**
- Developed an API for managing users and their posts, as it uses JWT for authentication and authorization, and route versioning for future upscaling.
- Integrated CORS support for both development and production environments to facilitate cross-origin communication, and fully documented the API using Swagger.
- The API uses Output Caching with different configurations, depending on which CORS policy being used, to match any business needs and improve performance by reducing the load on the database.
- Followed SOLID principles like Singleton Principle, Dependency Injection, and Repository Pattern to ensure the codebase is maintainable and scalable.
- Used stored procedures and triggers to ensure data integrity and enforce business rules.

University Grades Notifier API | *.NET 8*   **June 2024**
- Developed a sophisticated API to authenticate users and retrieve grade data from the university portal and sending it in a push notification instead of manully logging into the portal. This initiative reduced the need for manual grade updates, saving approximately 15 hours per month.

Mini Search Engine | *Python* | ⍟ GitHub   **April 2024**
- Created a basic search engine capable of processing and ranking documents based on relevance metrics such as Cosine-Similarity, Jaccard-Similarity, and others. With ranking accuracy of 83%.
- Enhanced the search engine's responsiveness and accuracy by implementing Likelihood Models, which improved the quality of search results by 2.5 times.

Turing Machine Simulator | *C++* | ⍟ GitHub   **October 2023**
- Created a console-based Turing Machine simulator for a Theory of Computation course, accurately emulating the behavior of a real Turing Machine. The simulator's performance was optimized by 30% through the use of efficient algorithms.

Achievements

Egyptian Collegiate Programming Contest (ECPC) | ⊕   **2023, 2024**
Contestant
- Twice finalist in regional qualifications contests, solving a wide range of complex algorithmic challenges. With the highest rank of 53rd in the 2024 contest.

Meta Hacker Cup | ⊕   **2024**
Contestant
- Progressed to the first round of the competition, competing against the top 25,000 participants worldwide.

IEEE AlexSB   **2024**
Contestant
- Participated in the IEEE AlexSB Programming Contest, solving a series of algorithmic challenges in a timed environment.

Volunteer Experience

HackerRank Campus Club, AUFS | ⊕   **January 2024 – October 2024**
Head of the Backend track   *Alexandria University*
- Served as the head and instructor for the back-end track, utilizing the .NET framework to teach and mentor students.
- Led a highly productive team that successfully completed multiple projects and significantly improved post-campus performance.
- Managed the executive board of 5 members, conducting weekly meetings to monitor and drive progress in key areas.
- Directed a chapter of over 20 members, focusing on community service, teamwork, creativity, academic excellence, and mentorship.