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

Social Media API | *.NET*   **August 2024**

- Developed a comprehensive social media API featuring full user authentication and authorization using JWT and bearer tokens, ensuring secure access to user data.
- Implemented DynamicParameters to efficiently handle SQL queries, enhancing the flexibility and performance of database operations.
- Followed APIs best practices, including versioning, pagination, and filtering, to ensure a consistent and user-friendly experience.
- Followed most of the **SOLID** principles, including **Single Responsibility**, **Open/Closed**, and **Dependency Inversion**, to ensure maintainable and scalable code.
- Utilized xUnit.NET to create unit tests for the API, achieving 90% code coverage.

University Grades Notifier API | *.NET*   **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.