

MOHAMED WAEEL ELTEIR

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Summary

Motivated Computer Science student with a solid foundation in algorithms, data structures, and software design. Proficient in Node.js and multiple programming languages, including C++, Python, and Java. Passionate about problem solving, clean code practices, and delivering high-quality projects. Proven track record in competitive programming with two-time participation in the ECPC. Committed to continuous learning and staying up-to-date with industry trends to build reliable and efficient software solutions.

Education

Alexandria University

Bachelor of Science in Computer Science

September 2021 – May 2025

CGPA: 3.57

Saint Marc College

Diploma

May 2007 – August 2021

Professional Training

Coach Academy Level 2 | 🌐

Competitive Programming

April 2024 – October 2024

- Participated in a 6-month training program focusing on competitive programming and problem-solving.
- Learned topics such as STLs, Static range queries, Backtracking, Two Pointers, Sliding Window, Searching Algorithms, Bit Manipulations & Masks.
- This level helped in achieving a 1100+ rating on Codeforces.

Information Technology Institute (ITI)

Open Source Development track

August 2024 – September 2024

- 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: JavaScript, C#, Java, C++, GO, Python, TypeScript, Julia

Technologies/Frameworks: Express.js, 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

Software Developer Freelancer

August 2019 – March 2020

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. This resulted in an 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 <i>Express.js</i>	June 2024
<ul style="list-style-type: none"> Developed a sophisticated API to authenticate users and retrieve grade data from the university portal and sending it in a push notification. This initiative reduced the need for manual grade updates, saving approximately 15 hours. 	
Mini Search Engine <i>Python</i>  GitHub	April 2024
<ul style="list-style-type: none"> 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 <i>C++</i>  GitHub	October 2023
<ul style="list-style-type: none"> Created a console-based Turing Machine simulator for a Theory of Computation course, accurately emulating the behavior of a real Turing Machine. The performance of the simulator was optimized by 30% using efficient algorithms. 	

Achievements

Egyptian Collegiate Programming Contest (ECPC) 	2023, 2024
<i>Contestant</i>	
<ul style="list-style-type: none"> 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
<i>Contestant</i>	
<ul style="list-style-type: none"> Progressed to the first round of the competition, competing against the top 25,000 participants worldwide. 	
IEEE AlexSB	2024
<i>Contestant</i>	
<ul style="list-style-type: none"> 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
<i>Head of the Backend track</i>	<i>Alexandria University</i>
<ul style="list-style-type: none"> 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. 	