

Mostafa Abdelazziz

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PROFILE

Computer and Communications Engineering Student at Alexandria University with a CGPA of 3.76/4 and a strong passion for software development and problem-solving. enthusiastic about competitive programming and adept at analytical problem-solving. Currently volunteering as a Public Relations Coordinator at ACM Alexandria Student Chapter, supporting technical events and coding workshops. Eager to apply my skills and experience in a dynamic internship environment that fosters growth and innovation.

EDUCATION

- Bachelor of Computer and Communications Engineering, **Alexandria University**
- **CGPA: 3.76/4**
- Date of Graduation: May 2027 (Expected)

PROJECTS

EcoVision School Management System | Spring core & Spring Boot

- Developed a Spring Boot application for managing school operations with secure authentication and **RESTful APIs**.
- Designed and implemented an **MVC** architecture, managed entities using **JPA** and **Hibernate**, and configured security measures.
- Integrated Spring JDBC for efficient database interactions and utilized **AOP** to handle cross-cutting concerns.
- Applied custom validations and explored advanced Spring Boot features, including monitoring tools for performance tracking.

Chess Game Application | Java, Java Swing

- Developed a 1v1 interactive chess game with a user-friendly graphical interface using Java Swing, as part of a team of two.
- led the design of the project, applying OOP and SOLID principles to ensure maintainability and scalability.
- My key contributions included managing the game flow, improving the interactive GUI, and implementing special features such as Check/Checkmate detection and custom game window enhancements.
- Optimized performance, improving response times during gameplay.

Bank Management System | C++, GUI

- Designed and developed a Bank Management System using C++ and SFML for the graphical interface as part of a team of 3.
- implemented file handling algorithms and data persistence mechanisms for key functionalities, including account management (create, delete, modify), transactions (deposits, withdrawals, transfers), and reports generation.
- My optimizations reduced data processing time by improved overall system performance. Demonstrated expertise in C++, algorithm design and file handling.

VOLUNTEERING WORK

Public Relations Coordinator at ACM Alexandria Student Chapter

(May 2023 - Present)

- As Public Relations Coordinator at ACM Alexandria Student Chapter, spearheaded outreach efforts, increasing participation in coding challenges through workshops on algorithmic problem-solving and programming techniques.
- Built and maintained relationships with sponsors, successfully securing support for technical events. Played a key role in organizing competitive programming contests and workshops, fostering a collaborative learning environment.

SKILLS

- **Programming languages:** Java, C, C++, Python, HTML5, JavaScript
- **Technologies:** Spring Core , Spring Boot, (good Knowledge with Spring Security & Spring data), SQL, MySQL
- **Version Control:** Git, GitHub
- **Other:** Linux, OOP Principles, SOLID Principles, Design Patterns, Data Structures and Algorithms