

Mohamed Samir Abdallah

Aspiring software Engineer & data science student

CONTACT

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PROFESSIONAL SUMMARY

Aspiring Software Engineer with a strong foundation in Java, Python, C++, and Data Science. Experienced in web development and database management. Proven track record of delivering projects and hands-on experience with real-world tools and technologies. Eager to contribute to a dynamic development team and further grow as a software engineer.

SKILLS

Programming Languages: Java, python, C++, R, SQL

Web Development: HTML, CSS

Databases: Microsoft SQL server (MS), PostgreSQL

Tools & Platforms: Git, GitHub, AWS, Linux

Concepts: Object-Oriented Programming (OOP), Data structures, Algorithms, networks basics, operating systems(OS), Data Science

WORK EXPERIENCE

- Java Developer Intern (remotely)

TechnoHacks EduTech

jan 2024 - mar. 2024

 - Successfully completed eight diverse java projects, including applications like a Calculator, Dice Roller, and Random Password Generator, showcasing a comprehensive understanding of the full software development cycle.
 - Demonstrated exceptional ability to adapt and thrive in fast-paced environments, consistently delivering high-quality solutions that surpassed project goals.
- IT Supporter Intern (Full time)

Egytrans company

july 2024 - Sep. 2024

 - Designed and configured small-office network labs using switches, printers, and laptops, resulting in improved network efficiency and streamlined operations.
 - Hardware Maintenance Principles and Application.
 - Hands-on experience with SOPHOS Firewall, antivirus software, and network troubleshooting tools.
 - Gaining network core Principles like: Protocols, Topologies, Networking Devices, IP address, MAC address, DNS and DHCP, and Network troubleshooting methodology.
 - Power Testing of IT systems.

EDUCATION

Faculty of Computer & Data Science – Alexandria University

Graduation Year (MAY. 2027)

LANGUAGES

Arabic (mother tongue)

English (fluent)

PROJECTS

- 1-Bank System Project (OOP)

Associated with Alexandria University

Mar 2024 - Mar 2024

 - Developed a comprehensive banking application in java using OOP principles.
 - Implemented features such as client management, transaction processing, user roles, and currency exchange.
 - Created a user-centric design for secure and streamlined banking operations.
- 2-Analysing a grocery dataset (R)

Associated with Alexandria University

Mar 2024 - Mar 2024

 - cleaned and checked the duplicated information in the dataset using the suitable packages & functions.
 - Implemented the association rules mining.
 - Implemented K-means clustering.
 - visualized the cleaned data.
- 3-Dual Bank and ATM System Project

Jan 2024 - Feb 2024

 - Developed a dual bank and ATM system in java with features like account management, transactions, loans, and system customization.
 - Designed separate interfaces for administrators and users for smooth system operation.

4-E-commerce System Project

Apr 2024 - Apr 2024

- Developed an E-commerce System in java using OOP principles.
- Implemented many categories to facilitate the shopping experience to the user.

5-Hospital Database Design

Dec 2024 - Dec 2024

- Designed an Entity-Relationship Diagram (ERD) to visualize and structure the database effectively.
- Developed a normalized schema to eliminate redundancy and ensure data integrity.
- Wrote and executed SQL code using Microsoft SQL Server (MS SQL) to build and manage the database.
- Implemented primary keys, foreign keys, and constraints to maintain referential integrity across all tables.

6-File-Sharing Web Application on AWS Project

Apr 2025 - Apr 2025

- Developed a web app on EC2 for file uploads and downloads, integrating with Amazon S3 for secure storage.
- Configured IAM roles, VPC, and security groups to ensure secure access and network isolation.
- Built a basic web interface with file type validation and generated secure download links after uploads.

CERTIFICATES

- AWS Academy Graduate – AWS Academy (Completed Cloud Foundations Course)
- Data Engineering Career Track in SQL – DataCamp
- OOP Workshop – HackerRank FCDS Campus
- Pre-Security Workshop – HackerRank FCDS Campus
- AI Career Essentials Certificate – ALX
- Data Structures and Algorithms Bootcamp Completion – IEEE Alexandria Student Branch
- Competitive Programming Level 1 & 2 Bootcamp Completion – ICPC FCDS

Vice-Head of Organizing Committee (OC)

PROJECT Engine

Aug 2024 - Oct. 2024

- Responsibility for organizing the event carefully.
- Honed leadership, organizational, and communication skills.
- Organizing entertainment programs during the event.
- Contributed in shaping the educational landscape.

Head of Organizing Committee (OC)

HackerRank FCDS Campus

Dec 2024 - present

- Lead and coordinate the Organizing Committee, managing a team to ensure the smooth execution of events and initiatives.
- Plan and deliver sessions focused on soft skills development (communication, teamwork, leadership) for chapter members.
- Organize and oversee technical workshops, hackathons, and career development events.
- Collaborate with other committee heads to align event goals with overall chapter objectives.
- Mentor new volunteers, helping them integrate into the team and build their organizational skills.

VOLUNTEERING
EXPERIENCE