

Mohamed Samir Abdallah

Aspiring software Engineer & data science student

CONTACT

Address: Alexandria, Egypt

Phone: +201203673694

Email: mohamed.samir.g10@gmail.com

LinkedIn profile: <https://www.linkedin.com/in/mohamed-samir-8b5a13309>

GitHub profile: <https://github.com/Mo-Samir10>

PROFESSIONAL SUMMARY

Full Stack .NET Developer skilled in building web applications using C#, ASP.NET Core, SQL Server, and front-end technologies (HTML, CSS, JavaScript). Strong background in database design, problem-solving, and delivering quality solutions, with additional experience in Java, Python, and C++, along with core knowledge of Data Science.

SKILLS

Programming Languages: C#, Java, Python, C++, R, SQL

Web Development: ASP.NET Core, HTML, CSS, JavaScript

Databases: Microsoft SQL Server, PostgreSQL

Tools & Platforms: Git, GitHub, AWS, Linux

Core Concepts: OOP, Data Structures & Algorithms, Database Design, Data Science Basics

WORK EXPERIENCE

Full Stack .NET Web Developer Trainee July 2025 – Present | Digital Egypt
Pioneers Initiative (DEPI)

- Training on full stack web development using C#, ASP.NET Core, SQL Server, and front-end technologies (HTML, CSS, JavaScript).
- Utilizing Entity Framework (EF Core) in projects to integrate databases with applications and implement CRUD operations efficiently.
- Developing scalable web applications with layered architecture and applying best practices in back-end and database management.

IoT Intern July 2024 – Sep 2024 | Faculty of Computers and Data Science, Alex University

- Contributed to a Smart Road System project integrating IoT, Cloud, AI, and Web technologies.
- Implemented smart hardware features: day/night light detection (LDR + IR sensors), fire hazard alerts (fire sensor, servo, buzzer), and real-time LCD feedback.
- Designed and tested circuits using Wokwi; integrated with HiveMQ (MQTT) for remote monitoring and control.
- Built a backend with Supabase and FastAPI, containerized with Docker, and developed an AI chatbot using LangChain + Gemini API.
- Delivered a working maquette prototype simulating real-world road safety conditions.

IT Support Intern

July 2024 – Sep 2024 | Egytrans Company

- Designed and configured small-office network labs using switches, printers, and laptops, improving network efficiency.
- Performed hardware maintenance and troubleshooting of IT systems.
- Gained hands-on experience with SOPHOS Firewall, antivirus software, and networking protocols.

EDUCATION

Faculty of Computers & Data Science – Alexandria University (Graduation Year: May 2027)

LANGUAGES

Arabic – Native

English – Upper-Intermediate

PROJECTS

Bank System Project (OOP) – Developed a banking app in Java with OOP principles, client management, transaction processing, and secure operations.

Grocery Dataset Analysis (python) – Cleaned and analyzed data, applied clustering and association rule mining, and visualized results.

Dual Bank and ATM System (Java) – Built a dual system with account management, loans, and admin/user interfaces.

E-commerce System (Java) – Created an OOP-based e-commerce app with multiple categories and shopping features.

Hospital Database Design (SQL Server) – Designed ERD, normalized schema, and built database with referential integrity.

File-Sharing Web App (AWS) – Deployed file-sharing app on EC2 with S3 storage, IAM roles, and secure access.

CERTIFICATES

- AWS Academy Graduate – Cloud Foundations
- Data Engineering Career Track in SQL – DataCamp
- OOP Workshop – HackerRank FCDS Campus
- Pre-Security Workshop – HackerRank FCDS Campus
- Data Structures & Algorithms Bootcamp – IEEE Alexandria Student Branch
- Competitive Programming Level 1 & 2 Bootcamps – ICPC FCDS

VOLUNTEERING EXPERIENCE

Head of Organizing Committee (OC) Dec 2024 – Present | HackerRank FCDS Campus

- Organized 5+ technical workshops and 2 seminars to enhance students' technical and problem-solving skills.
- Led CTRL+A, a flagship event hosting 10 senior engineers to guide students in career development.
- Produced 4 tech podcasts with industry professionals from Microsoft, Amazon, and others.
- Delivered 4+ soft skills sessions (communication, teamwork, presentation) to members and mentored them through practice opportunities.