

Omar Tarek Fahmy

Software Engineer

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Software Engineering Experience

Software Engineer, Vodafone Egypt, Smart Village, Cairo July 2024 – August 2024

- Contributed to data processing and insertion automation using the Java Spring Boot framework.
 - Increased system efficiency by over 60%, reducing processing time and human errors.
 - Collaborated in a team of 3 to deliver a JAR application that fully automated previously manual tasks.

Education

German University in Cairo, Cairo, Egypt September 2022 – June 2027
Bachelor of Science in Computer Science and Engineering (Media Engineering and Technology)
GPA: 3.80 (Cum laude - GPA)

Relevant Coursework: Data Structures, Databases, Computer Architecture, Object Oriented Programming

Software Engineering Projects

Telecom 1 (University Project) September 2024 – December 2024

- Developed front-end with ReactJS and back-end with Java Spring Boot, using Microsoft SQL Server.
 - Enabled user sign-up, plan subscription, balance display; provided admin monitoring dashboards.
 - Gained proficiency in React hooks, JPA, and RESTful endpoint design.

Attack on Titan: Utopia (Java Game with GUI) February 2024 – May 2024

- Applied abstraction, polymorphism, and exception handling in a collaborative JavaFX project.
 - Worked in a team of three, evenly distributing development tasks.

Digital Smart Desk (VHDL & FPGA Project) September 2024 – December 2024

- Led a 6-member team to design a desk that detects user presence and tracks usage time.
 - Integrated FPGA (VHDL) and Arduino (C++), interfacing proximity and light sensors with BCD timer and LEDs.

Technical Skills

- **Languages & Frameworks:** Java (Advanced), Java Spring Boot, Python (Advanced), C/C++ (Intermediate), SQL
 - **Web & Databases:** React, PostgreSQL
 - **Data & AI:** Data Structures & Algorithms (Advanced), Machine Learning, AI Prompting

- **Tools:** Git/GitHub, Arduino & Microcontrollers

Leadership Experience

Digital Smart Desk Project (Team Leader), German University in Cairo September
2024 – December 2024

- Organized and managed a team of six, using Git for version control and task distribution.

Software Engineering Project (Scrum Master), German University in Cairo January
2025 – Present

- Facilitated sprint planning and daily stand-ups for a 5-member team.
- Defined user stories, tracked progress, and implemented Agile practices to ensure continuous improvement.

Languages

- English (Fluent)
- Arabic (Native)
- German (Intermediate)