

# Amr Khaled El Sharkawy

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## EDUCATION

**German University in Cairo**  
Bachelor of Computer Science and Engineering

Expected Graduation: May 2025

## EXPERIENCE

**German University in Cairo**  
Junior Teaching Assistant

Oct 2023 – Dec 2023

- Assisted students in the Java OOP CS4 course, teaching them Object-Oriented Programming in Java and helping them in the labs to build their games.
- Assisted students in the Concepts of Programming Languages course, teaching them Haskell, Prolog, and C, and supporting them in the labs.

## PROJECTS

**Card Game — Java, Swing**

Mar 2022 – Jun 2022

🐙 github.com/AmrKhaledelsharkawy/MarvelGame

- Developed a Marvel-themed card game using Java and Object-Oriented Programming principles.
- Provided a variety of player characters and cards to choose from, each with unique abilities and health points, allowing them to engage in battles.

**Sports DBMS — SQL, MSSQL, ASP.NET**

Nov 2022 – Jan 2023

- Developed a Database Management System for managing the matches played in any sport, fan attendance, clubs, and tickets.
- Created a web application that enables the interaction between the database and the user interface.

**Online Banking System — HTML, CSS, JavaScript**

Mar 2023 – Jun 2023

- Created an online banking platform following software engineering principles.
- Initiated the process with the requirements engineering phase, moved on to the design phase using design patterns, and finally constructed a front-end website.

**Clinic and Pharmacy Website — MongoDB, Express, React, Node.js**

Oct 2023 – Dec 2023

🐙 github.com/AmrKhaledelsharkawy/Virtual-Clinic-Pharmacy

- Developed a virtual clinic and pharmacy using the MERN stack, designed to facilitate interactions among patients, doctors, and pharmacists.
- Provided features that enable patients to book appointments and buy medicines, doctors to manage schedules and prescriptions, pharmacists to update and manage medicines, and admin to oversee all operations.
- Served as Scrum Master and Team Leader, guiding project management, team coordination, and sprint planning to ensure timely and efficient delivery of project milestones.

### **Smart Parking System — C, Python, Raspberry Pi**

Jun 2023 – Aug 2023

[github.com/AmrKhaledelsharkawy/Embedded-Systems-Project](https://github.com/AmrKhaledelsharkawy/Embedded-Systems-Project)

- Developed a fully functional smart parking system using two Raspberry Pi Picos and various hardware components.
- Established communication between the Picos, programming one in C and the other in Python.

### **Operating System Scheduler — C**

Sep 2023 – Nov 2023

[github.com/AmrKhaledelsharkawy/OS-Scheduler-and-Resource-Manager](https://github.com/AmrKhaledelsharkawy/OS-Scheduler-and-Resource-Manager)

- Built an OS scheduler and memory manager that mimics the Round-Robin scheduling algorithm using C.

## **SKILLS**

**Personal Skills:** Teamwork, Communication Skills, Problem-Solving, Leadership, Ability to multitask, Continuous learning, Ability to meet deadlines

**Programming Languages:** Java, Python, C, SQL, HTML, CSS, JavaScript, PHP

**Developer Tools:** VS Code, IntelliJ, Eclipse

**Technologies/Frameworks:** React, Node.js, Express, MongoDB, MSSQL, Laravel

**Other Software:** Proficient in Microsoft Office (Word, Excel, and PowerPoint)

**Spoken Languages:** Fluent in English

## **COURSES**

### **Harvard CS50's Introduction to Computer Science**

- Gained a strong understanding of software engineering principles, including algorithms, data structures, and resource management.
- Engaged with complex problems demonstrating analytical and problem-solving abilities.

### **Harvard CS50's Web Programming**

- Developed a strong foundation in web programming languages.
- Gained practical experience with frameworks and technologies such as Git and Bootstrap.

### **Mastering Laravel Framework and PHP Coursera**

- Mastered the fundamentals of Laravel framework and PHP to develop web applications.
- Implemented various features such as user authentication and database management enhancing web development skills.

## **EXTRACURRICULARS**

### **Vice President of IEEE GUC Branch**

- Led and coordinated various technical projects, fostering teamwork and leadership skills.
- Organized events and collaborated with local and global brands to enhance campus life.

### **Vice President of Google Developer Group GUC**

- Spearheaded initiatives to promote technological education and development within the university.
- Guided teams in technical projects, enhancing my leadership and project management skills.