

# Zahra Saadawy

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## Education

### German University in Cairo

BS IN ENGINEERING-COMPUTER SCIENCE  
GPA: 2.0 (German Scale)

New Cairo  
Oct 2020 – Jun 2025

## Work Experience

### Upwork

SOFTWARE ENGINEER/ WEB DEVELOPER

- I get assigned to jobs requiring knowledge of Java, Python, Design Patterns and Front-End Development

Online  
Nov 2022 – Present

### German University in Cairo

JUNIOR TEACHER ASSISTANT-COMPUTER SCIENCE COURSE

- I assisted students during labs, helped them implement working efficient codes and answered their questions.

New Cairo  
Oct 2021 – Feb 2022

### Nasa Space Apps

SOFTWARE ENGINEER

- Worked with a team to develop an app to take the user in a virtual trip with spaceships via live feed showing all the trip detailed information and pictures.

Cairo  
May 2018 – Oct 2018

### Student Activities like EISTF, IEEE, MUN, INSIDER, ASCE, SCAD Events

USHER/ORGANIZER/TEAM MEMBER

- I was/am responsible for organizing, marketing, ushering or planning different events.

Cairo/ New Cairo  
Jan 2018 – Present

## Skills

**Programming Languages & Technologies:** Java, Python, SQL, Java Script, C#, Html5, CSS3, OOP, Problem Solving

**Programming Languages & Technologies:** Gimp, Bootstrap, JQuery, .net, React JS

**Languages:** Arabic, English, German ( elementary level)

## Projects

### DataBase Management Engine

DEVELOPED A ROBUST AND FEATURE-RICH DATABASE ENGINE WITH COMPREHENSIVE FUNCTIONALITIES, INCLUDING SUPPORT FOR OCTREE INDICES. THE OCTREE DATABASE ENGINE IS DESIGNED TO EFFICIENTLY STORE AND RETRIEVE DATA, PROVIDING OPTIMAL PERFORMANCE FOR VARIOUS APPLICATIONS.

Java  
<https://github.com/zahra-saadawy/Data-Base-Management-System>

### FootSys

A SYSTEM TO ORGANIZE ALL FOOTBALL ACTIVITIES, IT HAS A HUGE DATABASE FOR ALL THE CLUBS, STADIUMS, MATCHES AND THEIR TICKETS, FANS AND WORKERS. WE DEVELOPED ITS FUNCTIONALITY SUCH THAT PEOPLE CAN CREATE ACCOUNTS AND LOG INTO THE SYSTEM AND USE ITS FEATURES.

SQL, C#, ASP.net  
<https://github.com/Dareenfadel/FootSys.git>

### Marvel-Ultimate-War

A 2 PLAYERS TURN BASED VIDEOGAME WITH GUI AND BACK-END DEVELOPED FROM SCRATCH.

Java, Java FX  
<https://github.com/zahra-saadawy/Marvel-Game>

### Online Banking Website

DESIGNED A SECURE AND USER-FRIENDLY ONLINE BANKING WEBSITE FOR SEAMLESS FINANCIAL MANAGEMENT. FEATURES INCLUDE ACCOUNT MANAGEMENT, FUND TRANSFERS, BILL PAYMENTS, TRANSACTION HISTORY, BALANCE INQUIRY, STATEMENTS, AND STRONG SECURITY MEASURES. IMPROVED CUSTOMER EXPERIENCE AND ENSURED PRIVACY COMPLIANCE.

JavaScript, html, CSS  
<https://github.com/zahra-saadawy/SEB-Online-Banking-Website.git>

## Front-End Projects

A GROUP OF FRONT END PROJECTS I'VE STARTED WORKING ON AS A WAY TO DEVELOP MY FRONT-END KNOWLEDGE AND SKILLS

### Travelling Website

A TRAVELLING DESTINATIONS WEBSITE DESIGNED FOR THE USER TO VIEW DIFFERENT DESTINATIONS AND ADD THEM TO THEIR WANT TO GO LIST AND VIEW INFORMATION ABOUT THEM

*html, CSS, JavaScript*  
*<https://github.com/zahra-saadawy/FrontEndProgressTracker-.git>*

*Node JS, html, CSS, JavaScript*  
*<https://github.com/zahra-saadawy/NetworksProject.git>*

### Computer Processor

WE WORKED ON A PROCESSOR DESIGN THAT INVOLVES CHOOSING AN INSTRUCTION SET AND A CERTAIN EXECUTION PARADIGM, AND RESULTS IN A MICROARCHITECTURE. PERFORM RELATIONAL TESTS BETWEEN DATA VALUES AND TO CONTROL PROGRAM FLOW.

*Java*  
*<https://github.com/zahra-saadawy/Computer-Processor.git>*

### SimpleOS

SIMPLEOS: LIGHTWEIGHT, USER-FRIENDLY OPERATING SYSTEM WITH A CLEAN INTERFACE, ESSENTIAL FUNCTIONALITY, EFFICIENT RESOURCE MANAGEMENT, STABILITY, SECURITY, AND EASY CUSTOMIZATION. IDEAL FOR SEAMLESS AND HASSLE-FREE COMPUTING.

*Java*  
*<https://github.com/zahra-saadawy/SimpleOperatingSystem.git>*

## Awards

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Jan 2021	<b>3rd Place, Together Apart Hackathon</b> , We won 3rd place for engineering environmental project out of 150 participants.	<i>Erricson &amp; Itida</i>
ISEF	<b>2nd Place</b> , Our app idea won second place out of 340 projects.	<i>Society for Science</i>