

Malak Kamal

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Objective

Knowledgeable and motivated second-year Data Science student at Alexandria University with a strong foundation in programming languages such as Java, Python, and HTML. Currently learning front-end development with React and passionate about building user-friendly web interfaces. Solid understanding of Object-Oriented Programming and eager to apply knowledge in real-world projects and internships.

Education

Alexandria University

Alexandria, Egypt

Student in Computer and Data Science

2024 – 2028

- Programming Fundamentals (Java, Python, Object-Oriented Programming, R).
- Data Structures and Algorithms Introduction to Data Science.
- GPA: 3.6/4.0

Projects

Supermarket Management System (R)

2024

A data-driven supermarket system built using R. Allows basic inventory tracking, sales calculations, and customer billing. Utilized R's data frames and control structures to manage product data and simulate transaction flows.

Library Management System (Java)

2024

A desktop-based system for managing books and members. Supports book borrowing, returning, and record management. Developed using Java with object-oriented programming and file handling.

University Registration System (OOP)

An academic course registration simulation built using object-oriented design. Handles student-course enrollment, course creation, and admin functionalities, demonstrating strong use of classes and encapsulation.

Boggle Word Game (Python)

A graphical word game using Python and Tkinter. Implements recursive DFS to find valid dictionary words on a randomized 4x4 grid. Designed with a user-friendly GUI.

University Management System (Data Structures & OOP)

2025

Full university system managing students, faculty, and courses. Developed using custom data structures (linked lists) and OOP principles. Includes file-based data persistence.

Skills

Programming: Proficient with Python, Java, OOP, R, and Git; good understanding of Web, app development, and DevOps

Languages: English (Expert), Arabic (native)

Front-End Development: HTML5, CSS3, JavaScript (ES6+), React.js

Responsive Design (Flexbox, CSS Grid, Media Queries)

TypeScript (in progress), UI/UX Principles

Git & GitHub, Chrome DevTools, VS Code

API Integration, Component-Based Architecture

Soft Skills: Strong teamwork and collaboration abilities, Effective communication and leadership skills ,Problem-solving and critical thinking, Project management and organizational skills
, Adaptability and quick learning, Customer-oriented mindset