

Hussein Mohamed Saad

Full Stack Developer

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PROFILE

Software Engineer specializing in the MERN and Python (MongoDB, Express.js, React, Node.js, Django, Flask), with a strong academic background (ranked 4th in class, Excellent grade). Proficient in designing RESTful APIs, building responsive UIs with React, and developing scalable backends using Node.js/Express.js. Skilled in modern JavaScript (ES6+), HTML5/CSS3, and problem-solving with data structures/algorithms. Passionate about full-stack development and eager to leverage technical expertise in dynamic projects to deliver robust, user-centric applications.

INTERNSHIP

Intensive Training Program

Full Stack Python Web Developer track.

Cairo, Egypt

November 2024 – May 2025

Information Technology Institute (ITI), Knowledge City branch.

Projects:

- Developed a Django REST Framework API for [TrackIt](#) with JWT authentication, geolocation services, and AI-powered matching algorithms using Sentence Transformers and BLIP image captioning for automated lost item recovery.
- Developed a responsive React front-end for [TrackIt](#) with Tailwind CSS featuring real-time notifications, complex form validation, and interactive dashboards for attendance management and lost item matching. ([Visit Website](#))
- Developed a RESTful API for a [book-platform](#) using Node.js, Express, MongoDB, and JWT for authentication.
- Developed a responsive React front-end for a [book-platform](#), integrating RESTful APIs, state management, and interactive features. ([Visit website](#))
- Developed a React-based [movie app](#) with reusable components, React Bootstrap UI, and a dynamic, modular architecture.
- Developed a fully functional [e-commerce](#) website using vanilla JavaScript, HTML, and CSS with product listings, cart, authentication, and checkout. ([Visit website](#))
- Developed a Bash-based [DBMS](#) with CLI and GUI (Zenity) versions, supporting CRUD operations, data validation, and integrity enforcement

C and Embedded C programming

National Telecommunication Institute (NTI).

Cairo, Egypt

June 2022 – July 2022

Learned the fundamentals of C and Embedded C programming, including syntax, memory management, and hardware interaction

Projects:

- Developed a School Management System to manage student records, including creation, editing, deletion, ranking, and score management.

EDUCATION

Helwan University

Bachelor of Engineering.

Helwan, Egypt

September 2019 – May 2024

Major in Communications and Information Technology; Minors in Software Engineering.

Cumulative Grade: Excellent.

Cumulative GPA: 3.35/4.0.

Graduation project: A+

Relevant Coursework: Computer Architecture, Software Engineering, Operating Systems, Data Structures & Algorithms, Database Systems, Object-Oriented Programming, Data Mining, Machine Learning, Artificial Intelligence.

Graduation Project: Self-Driving Car:

October 2023 - July 2024

Developed key self-driving car modules, including PID-based vehicle control, Extended Kalman Filter for state estimation, CNN for traffic detection, and motion planning using Dijkstra's and A* algorithms.

TECHNICAL SKILLS

HTML5, CSS3, C++, C, Bash, JavaScript, Python, MySQL, Postgres, MongoDB, ReactJS, Django, Flask, ExpressJS, OOP, SOLID Principles, Design Patterns, Clean Code, Git, GitHub, Agile Methodology, Jira.

SOFT SKILLS

Problem-solving, Time management, Adaptability, Teamwork, Leadership

LANGUAGES

Arabic: Mother tongue.

English: Advanced.

ADDITIONAL INFORMATION

Military Status: Exempted

Date of birth: 9/3/2000

Nationality: Egyptian