

Wael Bakir

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ABOUT ME

I am a dedicated student pursuing a bachelor's degree in computer science at SUT in the Data Science Program. Fluent in English, French, and Arabic, with a good understanding of German, and equipped with a solid foundation in programming. I've gained proficiency in languages like Python, Java, SQL and more. My passion for technology and commitment to academic excellence drive me to excel in both my studies and practical projects, eager to contribute to the ever-evolving field of computing.

WORK EXPERIENCE

Orange Egypt – Student Intern; Smart Village, Cairo, Egypt February 2019 - March 2019

- Explored and comprehended various company departments.
- Required to deliver a project and present it to 2 juries.
- Project results contributed to final grades, attained a flawless score on the project presentation.

E-finance - Student intern; Smart Village, Cairo, Egypt

- **Backend Development:**
- Managed Oracle SQL/PL databases: designed, optimized, and performed CRUD operations.
- Developed and deployed RESTful APIs with Node.js, Express.js, and Oracle DB integration.
- Implemented repository patterns, token-based authentication, and input validation.
- **Frontend Development:**
- Built responsive web pages with Angular, focusing on components, routing, and form validation.
- Integrated frontend and backend for seamless data flow.

EDUCATION

El Sewedy University of Technology| Faculty of Computer Science Technology Cairo, Egypt
Bachelor's degree October 2023 – Present

- Relevant Coursework: Object Oriented Programming, Database Management Systems, Network Basics, Introduction to Computer Programming, Applied Mathematics I

Collège De La Salle Cairo, Egypt
• *French baccalaureate*

SKILLS & COURSES

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- **Programming Languages:** Python, Java, SQL, HTML, CSS.
 - **Frameworks & Libraries:** Jswing, Matplotlib, Numpy, smtp lib, SSL, tkinter, huggingface, postman.
 - **Languages:** Arabic native proficiency, English & French fluent proficiency, German conversational proficiency.
 - **Certificate:** IELTS: 6.5 overall

PROJECTS

Library Management System Java
Object Oriented Programming April 2024 - May 2024

- Designed and implemented a library management system for my OOP Class.
- The system manages a book library and allows customers to borrow/return books from the library. The project utilizes OOP concepts such as inheritance and polymorphism.

SMTP Python 3
Networks April 2024 - May 2024

- Developed a user-friendly desktop application using Python and Tkinter for sending emails with attachments, featuring an intuitive GUI for inputting email details and managing attachments.
- Integrated file attachment functionality and utilized the smtp lib library for secure email sending with robust error handling.
- Styled the application with Tkinter's tk widgets and custom themes, ensuring a visually appealing and responsive design.
- Collaborated effectively with team members, incorporating secure handling of user credentials and dynamic attachment management.

Student Management System Python 3
CSV File Handling, User Authentication, User Interface, JSON, Web Pages January 2024 - January 2024

- Designed and implemented a menu-driven console application in Python to manage students, courses, and grades, incorporating CRUD operations for each module.

- Utilized modular programming by importing and organizing functionalities from separate utility, student, course, and grade modules.
- Integrated data visualization using Matplotlib to generate bar charts of student grades and enabled HTML report generation for student results.
- Employed robust error handling and user input validation to ensure a smooth and reliable user experience.

❖ You can access all the project details, including source code and documentation, within my GitHub repositories:

<https://github.com/waelbakir?tab=repositories>