Adel Sameer Yousef

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PROFILE

As a Computer Science graduate with a specialization in Software Engineering, I bring a solid foundation in backend development, algorithm design, and web technologies. My academic training enhances my ability to build efficient systems, solve complex technical problems, and contribute to collaborative software projects. I have hands-on experience in developing RESTful APIs, managing databases, and working with modern frameworks like Flask and ReactJS. I'm driven to create scalable, maintainable software solutions that align with user needs and business goals.

PROJECTS

MASARI Smart Academic System   2025
Graduation Project | King Abdulaziz University
MASARI is an intelligent academic management platform designed to automate scheduling, predict class section demand, and streamline university operations for students, faculty, and administrators.
- Developed the backend of MASARI, a smart academic management system using Python and Flask, designed to automate and optimize university scheduling and academic operations.
- Implemented automated course registration logic, ensuring proper verification of registration conditions and real-time response handling.
- Integrated a RandomForestRegressor machine learning model to accurately predict class sections for courses, achieving 91% prediction accuracy based on real data from over 2,000 students.
- Contributed to smart exam scheduling functionality to avoid conflicts and efficiently allocate classrooms.
- Collaborated in defining role-based permissions for students, faculty, and administrators.

EDUCATION

Bachelor's Degree in Computer Science - Software Engineering Track   May 2025
King Abdulaziz University   Saudi Arabia
- Developed a solid foundation in software design, algorithms, and system architecture.
- Gained practical skills in web and mobile application development using modern frameworks and tools.
- Learned best practices in software engineering, including agile methodologies, version control, and testing.
- Explored topics in AI, machine learning, and data analysis to support intelligent system development.
- Built strong problem-solving and coding skills through real-world projects and team collaboration.

CERTIFICATES

Microsoft Excel

SKILLS

Technical Skills:
- Programming Languages: Python, JavaScript, java, C#
- Frameworks & Tools: Flask, ReactJS, Vite.js
- Microsoft Office.
- Database Management: MySQL, Supabase
- Version Control: GitHub
- API Development: RESTful APIs.
- Software Development: Agile methodologies, Unit Testing

Soft Skills:
- Problem-Solving
- Communication skills.
- Time Management.
- Team Collaboration.
- Decision-making.
- Flexibility and Adaptability
- Attention to Detail

LANGUAGES

Arabic (Native)   English (Professional Working Proficiency)