

# Mostafa Dawi

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## Profile

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Enthusiastic software engineer and Master's student with a passion for data-driven innovation, AI, and scalable backend systems. Proven experience leading teams and delivering efficient, real-world solutions using modern full-stack technologies.

## Skills

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- Proficient: Python, Java, Node.js, C, C#.
- Front-End: HTML, JavaScript, Tailwind CSS, React.js, TanStack Query.
- Back-End: Express.js, Flask, Spring Boot, Supabase.
- Database: SQL Server, MySQL, PostgreSQL, MongoDB.
- AI & Data Science: Scikit-Learn, TensorFlow, NLP, Pandas, NumPy, Matplotlib, Seaborn.

## Projects

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### Real Estate Dashboard & Prediction System | (React, Recharts.js, Flask, Supabase, Light Gradient Boosting, TanStack Query)

- Led a team of 4 to build an AI-driven real estate prediction system with 92% accuracy using LightGBM.
- Scraped and cleaned data from multiple sources, reducing noise by 85% and improving data quality.
- Developed a scalable backend API with Quart & Hypercorn (Flask), improving response times by 40%.
- Optimized Supabase (PostgreSQL) queries, reducing data retrieval time by 60% for real-time analytics.
- Designed a React-based dashboard with TanStack Query, enhancing data load performance by 50%.

### Social Media Platform - X Clone | (MongoDB, Express, React, Node, TanStack query, JWT, Tailwind CSS, daisyUI)

- Implemented post creation, liking, commenting and following features.
- Improved security by integrating authorization and authentication techniques using JWT.
- Built a RESTful API to handle CRUD operations and real-time user interaction.
- Designed web pages with Tailwind CSS and daisyUI and React Router for seamless navigation.
- Integrated TanStack query adding 60% more flexibility to managing data fetching and caching.

### ETL Pipeline for Data Migration | (MSSQL, MySQL, Batch Scripts)

- Extracted data from SQL Server using bcp command and inserted it into CSV file.
- Built a database schema in SQL to handle transform and load phases.
- Transformed bulk data from CSV files to cleaned and processed data.
- Loaded transformed data into MySQL using batch and SQL files resulting in replicated data.

### MyNote | (Android Studio, Java, SQLite, Bcrypt)

- Used Bcrypt library for secure user registration resulting in better security.
- Handled various note formats: text, images, and links, adding 50% more diversity to note content.
- Enabled note customization, resulting in 30% more aesthetically refined environment.
- Allowed sharing notes among users for better collaboration.
- Implemented export-to-PDF feature, satisfying user feedback and adding 30% more flexibility.

## Education

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### Master's Degree in Information System and Data Intelligence

Lebanese University | Hadath, Lebanon

2025

### Bachelor's Degree in Computer Science

Lebanese University | Hadath, Lebanon

2023