Hussein El Mazbouh

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SUMMARY

Computer Science graduate and Full-Stack Engineer focused on delivering high-quality, scalable software. Proficient in Next.js, PHP, and Java, with a strong commitment to SOLID principles and System Design. A proactive problem-solver who uses AI tools and technical expertise to build impactful solutions in a collaborative team environment.

EDUCATION

Lebanese University   Beirut, Lebanon
Bachelor of Science in Computer Science   *2021 – 2025*

- Relevant Coursework: Data Structures, Algorithms, Web Development, System Design, Graph Theory, OOP.

WORK EXPERIENCE

Software Developer Intern   Sept 2025 – Nov 2025
TechTalks   *Remote*

- Developed a "Smart Medicine Reminder" application using **Next.js**, creating a user-friendly interface that improved medication adherence.
- Designed and managed the database schema and implemented robust input validation to ensure data integrity.
- Collaborated within an agile development team using Git/GitHub for version control to deliver real-world features.

Private Tutor (STEM & Programming)   2022 – 2025
Self-Employed   *Lebanon*

- Simplified complex programming concepts (Java, C, Algorithms) for high school students to improve exam performance.
- Strengthened communication and leadership skills by breaking down technical topics into digestible lessons.

Intern   3 Months
Kids Kingdom Center   *Lebanon*

- Assisted in coordinating educational programs and demonstrated strong teamwork while supervising group activities.

TECHNICAL SKILLS

Languages: Java (OOP), PHP, C, C#, SQL, JavaScript, HTML/CSS, XML, Assembly
Frameworks: Next.js, React.js, ASP.NET, Bootstrap
Databases & Tools: MySQL, PostgreSQL, Git/GitHub, Axios, VS Code, Android Studio, Linux
Concepts: SOLID Principles, Design Patterns, Data Structures, Algorithms, System Design, REST APIs
Languages (Spoken): Arabic (Native), English (Intermediate to Advanced - B1)

PROJECTS

Smart Medicine Reminder | *Next.js, React*

- Developed a user-friendly app improving medication adherence with robust input validation.

Chatting App | *PHP, MySQL, JS, AI API*

- Created a real-time messaging platform featuring AI auto-responses and unread message indicators.

Habit & Health Logger | *PHP, Vanilla JS, MySQL, AI API*

- Engineered a full-stack health tracker using vanilla code to optimize performance and integrate AI insights.

AI Code Reviewer | *PHP, MySQL, Axios, AI API*

- Developed a pair-programming tool that integrates an AI API to analyze code and provide instant feedback.

Solitaire Dashboard | *PHP, MySQL, JavaScript*

- Built a dynamic game dashboard with a leaderboard system, randomized scoring logic, and user tracking.

Bookstore Web App | *PHP, MySQL, CRUD*

- Engineered a library management system featuring full CRUD operations and secure form validation.

Travel Mate System Design | *UML, System Analysis*
- Conducted a full software lifecycle study, from requirements gathering to architectural design and prototyping.

Android Contact Manager | *Java, XML, SQL, Android Studio*
- Built a mobile application with full CRUD capabilities, utilizing SQLite for persistent local storage.
- Designed an intuitive UI using XML layouts and implemented efficient data handling.

Guess The Number | *.NET 8, C#, Razor Pages, SQL*
- Developed an interactive web game using .NET, featuring database integration to store game history and scores.
- Implemented complex game logic and input validation using Endpoint Filters.

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