Hussein El Mazbouh

+961 81 736 964 | husseinelmazbouh1@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

Computer Science graduate and Full-Stack Engineer focused on delivering high-quality, scalable software. Proficient in Next.js and PHP, 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/Hybrid*
- 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, SQL, JavaScript, HTML/CSS, Assembly, Prolog
Frameworks: Next.js, React.js, ASP.NET, Bootstrap, Tailwind
Databases & ETL: MySQL, PostgreSQL, Relational Database Design, Schema Optimization
Tools & Cloud Services: Git/GitHub, Axios, Linux, PowerDesigner, VS Code, MS Office
Concepts: SOLID Principles, Design Patterns, Data Structures, Algorithms, System Design, GUI
Languages (Spoken): Arabic (Native), English (Intermediate to Advanced - B1)

PROJECTS

AI Code Reviewer | *HTML, CSS, PHP, MySQL, Axios, AI API*   Oct 2025
- Developed a pair-programming tool that integrates an AI API to analyze and review user-submitted code.
- Implemented asynchronous data handling using Axios to fetch AI responses instantly without page reloads.

Full-Stack Solitaire Dashboard | *PHP, MySQL, JavaScript, Axios*   Sept 2025
- Built a dynamic game dashboard with a leaderboard system, randomized scoring logic, and user tracking.
- Utilized Axios for seamless frontend-backend communication and efficient data rendering.

Travel Mate System Design | *Requirements Analysis, UI Mockups*   May 2025
- Comprehensive study project demonstrating the full software lifecycle, from requirements gathering to architectural design and high-level prototyping.

Bookstore Web App | *PHP, MySQL, CRUD*   Jan 2025
- Engineered a library management system featuring full CRUD operations and secure form validation.

Social Scoring System | *Research, System Analysis*   Nov 2024
- Conducted a collaborative study on algorithmic scoring models to define their architecture and ethical implications.