

# DANA SAKAAN

Computer Science Senior | Full-Stack & Generative AI Developer

Email: [danasakaan4@gmail.com](mailto:danasakaan4@gmail.com) | Phone: +961 71 724 184 | Rashaya, Beqaa, Lebanon

LinkedIn: [linkedin.com/in/dana-sakaan](https://linkedin.com/in/dana-sakaan) | GitHub: [github.com/Dana-Sakaan](https://github.com/Dana-Sakaan)

## PROFESSIONAL SUMMARY

Computer Science graduate from Modern University for Business & Science with hands-on experience in full-stack web development and Generative AI. Proficient in React, Node.js, .NET Core, and the MERN stack, with practical exposure to LLM architectures, RAG pipelines, LangChain, and the OpenAI API. Passionate about building secure, scalable, user-focused applications and eager to contribute to forward-thinking engineering teams.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Python, Java, C#

**Frontend:** React.js, React Native, Tailwind CSS

**Backend:** Node.js, Express.js, .NET Core, PHP

**Databases:** MongoDB, MySQL, SQL Server (via Entity Framework Core)

**AI / ML:** OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), Vector Databases, Prompt Engineering, LLM Fundamentals

**Tools & Platforms:** Git, GitHub, Firebase, REST APIs, JWT Authentication

**Concepts:** Full Software Development Lifecycle, Entity Relationship Design, Role-Based Access Control (RBAC), Responsive UI/UX

## WORK EXPERIENCE

### Generative AI Intern — Eurisko Academy

October 2025 – November 2025

- Completed an intensive Generative AI program covering LLM architectures, prompt engineering, and Retrieval-Augmented Generation (RAG) pipelines.
- Gained hands-on experience with industry-standard tools including the OpenAI API, LangChain, and vector databases through guided projects and exercises.
- Studied AI ethics, model fine-tuning techniques, and deployment considerations for production-grade AI systems.

### Web Development Intern — Integrated Digital Systems (IDS)

July 2025 – September 2025

- Developed "Smart Meeting," a full-stack web application, by integrating RESTful APIs built with .NET Core and responsive UI components built with React.js.
- Engaged in the full software development lifecycle: designed the Entity Relationship Diagram (ERD), implemented the database schema, developed backend and frontend, and deployed the application.
- Used Git for version control and collaborated in a professional team workflow.

## PROJECTS

### AgriScan — AI-Powered Plant Identification & Community Platform (React Native, Firebase)

May 2026

- Built an AI-powered cross-platform mobile application for plant identification, disease diagnosis, mushroom recognition, plant care management, and moderated plant community.
- Integrated external AI APIs (Plant.id, Perennial, Gemini) to deliver image-based analysis, conversational assistance, and automated content moderation.
- Designed a Firebase backend architecture using Authentication, Firestore, Cloud Storage, and Cloud Functions for secure and scalable data management.

- Developed social networking features including community groups, posts, comments, notifications, and user engagement tracking.
- Implemented a gamification system with ranks and points to increase community participation and user retention.
- Reduced API consumption through caching strategies and reusable data transformation utilities while maintaining a consistent application data model.

**Demo Video:** [AgriScan-Demo-Video](#)

### **Connect-In — University Showcase Website** *(React.js, Tailwind CSS)*

*January 2026*

- Selected as one of only two Computer Science students to collaborate with graphic designers on an official university project website.
- Translated Figma designs into fully responsive React components styled with Tailwind CSS.
- Participated in cross-functional team meetings, bridging design concepts with technical feasibility and contributing to UI/UX decisions.
- Built reusable, performance-optimized components that maintained strict design consistency.
- Delivered a professional, production-ready website showcasing the university's project initiative to external stakeholders.

### **Smart Meeting — Enterprise Meeting Room Management Platform** *(.NET Core, React.js, SQL Server)* *August 2025*

- A full-stack web application for managing meeting rooms and employees within a company. Employees can create meetings, book rooms, and add attendees, while administrators manage rooms, users, and reservations.
- Architected a secure enterprise system using JWT authentication with role-based authorization (Admin / Employee) governing feature access across the application.
- Designed and implemented the database schema using Entity Framework Core, managing migrations to a SQL Server database.
- Built secure and efficient API communication by implementing DTOs to structure data exchange between the frontend and backend.
- Integrated Firebase Storage for secure file management — enabling upload of employee profile images, room images, and meeting summary PDFs.
- Built a comprehensive room management module allowing administrators to create, edit, and track room reservations.
- Implemented a profile management system enabling employees to edit personal information, profile image, and password.
- Designed dark / light mode theming for an enhanced user experience using Tailwind CSS.

**Demo Link & Admin Credentials (for reviewers):**

Link: [Smart-Meeting-Demo](#)

Email: user@gmail.com | Password: UsEr123!

### **Imagination Station — E-Commerce Toy Store** *(MERN Stack)*

*March 2025*

- A full-stack e-commerce website for selling toys online, built using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Designed a modern, responsive UI using Tailwind CSS utility classes for rapid styling.
- Built the frontend with reusable, modular React components for maintainability and scalability.
- Implemented Express.js routing for navigation between pages, with MongoDB managing persistent data storage.
- Used JSON Web Tokens (JWT) for secure user authentication and authorization, ensuring safe data exchange between client and server.

**Demo Link:** [Imagination-Station-Demo](#)

## EDUCATION

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### **Bachelor of Science in Computer Science**

Modern University for Business & Science (MUBS)

**Graduated: May 2026**