

Tala Sabra

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Profile

Computer Science graduate from the Lebanese American University with experience in frontend development and academic projects involving AI, databases, and machine learning. Seeking an internship or entry-level opportunity where I can apply my skills, gain hands-on experience, and continue developing in AI-focused technologies.

Technical Skills

- **Languages:** Python, Java, C, C++, SQL, JavaScript, TypeScript, HTML, CSS
- **Frameworks & Libraries:** React.js, Next.js, Express.js, Tailwind CSS
- **Databases:** MongoDB, ChromaDB, MySQL, PostgreSQL, Supabase
- **Developer Tools:** Git, GitHub, VS Code, Android Studio, Google Colab

Professional Experience

Acksession, Beirut, Lebanon

July 2025 – Aug 2025

Frontend Intern

- Developed front-end web interfaces using React, focusing on responsive and user-friendly design.
- Contributed to improving UI/UX performance and enhancing user experience across pages.

Shab w Sabeye Eduteam, Beirut, Lebanon

Jan 2026 – May 2026

Private Tutor

- Tutored High School students in mathematics, focusing on problem-solving and conceptual understanding.

Education

Lebanese American University, Beirut, Lebanon

Sept 2023 – May 2026

Bachelor of Science in Computer Science

Projects

Mindful Munch – AI-Powered Personalized Meal Planning Platform

2025 – 2026

www.mindfulmunch.online

- Co-developed a full-stack AI meal-planning platform combining pantry tracking, food waste reduction, Lebanese culinary heritage, community features, and gamification.
- Integrated OpenAI GPT-4o-mini for 7-day meal planning with structured JSON validation and waste-first prioritization of expiring pantry ingredients.
- Worked with React, TypeScript, Tailwind CSS, Node.js, Express.js, Supabase, PostgreSQL, and REST APIs.

PedagoEval – Research on AI-Generated Educational Feedback

– 2026

- Developed a machine learning pipeline to evaluate the pedagogical quality of AI-generated feedback for open-ended student responses.
- Used a rubric covering Misconception Identification, Actionability, Conceptual Alignment, Scaffolding Quality, and Growth Orientation.
- Applied Sentence-BERT, TF-IDF, supervised classification models, 5-fold cross-validation, Macro F1 scores, and confusion matrices for evaluation.

AstraEdu

–2025

- Built a mobile application for managing student schedules and course loads using Java, XML, and SQLite, with simple navigation, schedule organization, and persistent student data storage.

AI Fake News Detection System

–2025

- Built and evaluated machine learning models to classify news articles as real or fake using classification metrics to compare performance.

Fikr – CedarStage Theater Management System

–2024

- Worked on a Software Engineering team project for a theater booking and venue management system.
- Helped model booking workflows with UML diagrams and supported features such as reservations, scheduling, image storage, and secure access.

Byte Builders – Digital Library Database System

–2024

- Created a relational database system for a digital library, organizing records through a clear schema built with ER diagrams and normalization.
- Wrote SQL queries to retrieve, manage, and report library data efficiently.

Extra Curricular Activities / Volunteer

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| • Varsity Volleyball Team, LAU – Scholarship Athlete | Sept 2023 – May 2026 |
| • Member of the Computer Science Club, LAU | Sept 2023 – May 2026 |
| • Volunteer Member, Lebanese Red Cross / LAURC | Oct 2025 – May 2026 |