

Nour Hammoud

Beirut, Lebanon

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Profile

Detail-oriented and motivated **Senior Computer Science student** with a strong foundation in **Artificial Intelligence, Machine Learning, and Data-Driven Applications**. Experienced in developing innovative AI solutions, including an **NLP-based mental health monitoring application**, with a proven track record of leveraging technology to solve real-world problems. Currently expanding knowledge in **biochemistry with a premedical focus**, with a keen interest in applying AI to healthcare technology. Eager to contribute technical skills and creativity to impactful projects in the AI domain.

Education

Bachelor of Science in Computer Science: Senior Student

USAL University, Beirut, Lebanon

Expected Graduation: 2026 | GPA: 3/4

Second year student in Biochemistry

Lebanese University, Lebanon

First Year Average: 15/20

Technical Skills

- **Programming:** Python (Strong), Java (Intermediate), C#, HTML, CSS, JavaScript, SQL
 - **AI/ML & Tools:** Natural Language Processing (NLP), Flask, Django, MySQL, React, Git/GitHub, Visual Studio Code
 - **Soft Skills:** Effective Communication, Adaptability, Problem-Solving, Team Collaboration, Time Management
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Projects

SOUL: AI Therapist Companion

- Developed an **AI-based conversational therapist** using Python and NLP to monitor mental health and detect **early signs of suicidal ideation**.
- Implemented **emotion classification (positive, neutral, negative)** and **topic extraction** to

generate empathetic responses.

- Integrated **Ollama3 model** for dynamic response generation, overcoming limitations of rule-based replies.
 - Added a **safety layer** with Beck Depression Inventory checks and **hotline recommendations** for crisis scenarios.
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SOLO: Dynamic Travel Website

- Built a **travel recommendation platform** providing **personalized hotel and trip suggestions**, using Flask/Django for backend logic.
 - Enhanced user experience through **real-time API integration** (e.g., flight, hotel, weather APIs) and **dynamic front-end features**.
 - Optimized database queries with SQL for **efficient data handling and faster response times**
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Professional Experience

Software Engineering Intern – IDS Fintech | Feb – Apr 2025

- Worked in the **Development and Research Department**, gaining exposure to **SQL Server databases, asynchronous programming, REST APIs, and web development with React**.
- Contributed to backend and frontend tasks, ensuring efficient integration of APIs and database management.
- Recognized for being **punctual, hardworking, and inquisitive** during the internship.

Software Engineering Intern – SimBrains | 2024

- Contributed to developing a **fleet management system** using **C# and MySQL**.
- Implemented **MVC architecture** and backend logic to improve system performance by **15%**.

Writing Center Intern – USAL University

- Guided students in improving academic and professional writing, increasing student satisfaction ratings by **20%**.

Volunteer Experience – UNICEF & NHN Volunteers (Lebanese Crisis Response)

- Distributed essential resources (food, water, medical supplies) to families affected by the crisis.
 - Reached over **500 families** through community outreach and logistics coordination.
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Extracurricular Activities

- Member, **Book Club "Kalim"**, USAL University
 - Active participant in **USAL Culture Day**, promoting student engagement and community outreach
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Awards & Recognition

- Recognized by USAL for the article "**Fear of Being Seen**", addressing student public speaking anxiety.
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Relevant Coursework

- **Artificial Intelligence**
 - **Data Structures & Algorithms**
 - **Database Management Systems**
 - **Web Development**
 - **Biochemistry Fundamentals**
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