Siraj Al Mabsout

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EDUCATION

Lebanese American University, Beirut, Lebanon   **Expected Graduation June 2025**
BS in Computer Science
GPA: 3.82/4.00

WORK EXPERIENCE

Java Backend Developer Intern   **Summer 2024**
Foo, Sin Al Fiel
- Created Robust RESTful API
- Implemented CRUD Operations with JPA
- Developed and integrated Apache Kafka in real-time data processing project
- Designed a model to apply API licensing

PROJECTS

QR Code Attendance System   **Spring 2025**
- Designed and developed a secure mobile-based attendance system for universities using QR code scanning.
- Implemented session-based QR code generation, location and Wi-Fi-based verification, and manual attendance request handling.
- Built the backend using Spring Boot with JWT-based authentication, role-based access (Student, Teacher, Admin), and REST APIs.
- Integrated the frontend using Android Studio (Java) with Volley networking, SharedPreferences, and location services.
- Deployed the backend on Microsoft Azure and integrated email verification, session tracking, and admin approvals

Deep Learning Retrieval-Augmented Generation (RAG) System   **Spring 2025**
- Created an intelligent chatbot that answers student queries by combining OpenAI's GPT-4o with LlamaIndex for document retrieval.
- Processed academic resources (PDFs, PPTs, DOCX, IPYNB) from Google Drive using OCR, chunking, and embedding strategies.
- Built a Python Flask microservice to serve GPT-generated responses based on contextually retrieved data.
- Integrated a natural language interface capable of summarizing, answering, and referencing course-specific materials.
- Designed the architecture to support scalable vector search, caching, and future fine-tuning

EXTRACURRICULAR ACTIVITIES

Basketball Coach & Club Coordinator, Ibad Club – Beirut   **July 2021-Present**

- Head coach for youth basketball teams (age groups 2015–2016 and 2017–2018); planned and led training sessions twice a week.
- Supervised assistant coaches and trained them on effective engagement with young players.
- Managed the club's youth scheduling and monitored the progress of all teams across different age groups.
- Participated in leadership meetings as head of the club to contribute to key decisions and club development.
- Organized and led summer camps including outdoor activities, tournaments, and team-building events.
- Responsible for planning and coordinating events and internal programs for the club.

Team Leader, Sustainable life challenge program   **August 2024-Present**

- Performed challenges acting toward SDG goals.
- Monitored the team's performance during the program duration.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, PHP, SQL, C
Frameworks & Tools: Spring Boot, Android Studio, Google Colab, Eclipse, IntelliJ, Jupyter Notebooks, Spyder, Git, Kali Linux
Cloud & Deployment: Microsoft Azure
Productivity: Microsoft Office (Outlook, PowerPoint, Word, Excel)

LANGUAGES

Fluent in Arabic and English.