

# Karim Jibai

Beirut, Lebanon | [karim.jibai002@gmail.com](mailto:karim.jibai002@gmail.com) | (+961) 76-414803

**LinkedIn:** <https://www.linkedin.com/in/karim-jibai001/> | **GitHub:** <https://github.com/GitDevKarim> | [gitdevkarim.github.io/portfolio](https://gitdevkarim.github.io/portfolio)

## EDUCATION

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**Lebanese American University, Beirut, Lebanon**  
*Bachelor of Science, Computer Science*

**September 2020 – July 2023**

## TECHNICAL SKILLS

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- **Languages:** Python, SQL, Java, C/C++, JavaScript, Typescript, Bash, LUA, PHP, HTML, CSS.
- **Frameworks & Tools:** NodeJS, ExpressJS, Flask, Django, Git, Rest API, Linux, Pandas, NumPy, Spacy, NLTK, Docker, Apache Spark, Apache NiFi.
- **Databases:** Microsoft SQL Server, MySQL, Oracle DB, MongoDB, Apache Solr.

## PROFESSIONAL EXPERIENCE

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**SOFTECH, Beirut, Lebanon**  
*Full-time Data Engineer*

**November 2022 – Present**

- Designed and implemented Database schemas and relationships, creating Entity-Relationship Diagrams (ER Diagrams).
- Developed data pipelines with Apache NiFi to migrate data from old databases to new ones (ETL), as well as loading new data coming from rest API endpoints into our database.
- Implemented a flask application that monitored the health of our data pipelines through the usage of NiFi's API with notifications in case an issue arises.
- Optimized Python scripts that connect our SQL databases to our NoSQL databases, seamless integration, facilitating the data ingestion process.

**FREELANCE, Remote**

*Full Stack Development using HTML/CSS/JS and Python Flask*

- Developed an E-Commerce website for lighters ([adeha.store](https://adeha.store)) relying on NoSQL local data storage.
- Developed a responsive E-Commerce website for the sale of clothes ([wearwithfarah.com](https://wearwithfarah.com)) using SQLite3 to manage the database.

## ACADEMIC PROJECTS

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**Artificial Intelligence Foundations: Machine Learning**

**Issued in January 2024**

*LinkedIn Learning [Certificate]* | **Relevant Skills:** Machine Learning

**Full Stack Web Project**

**May 2023 – July 2023**

*Wise Horizons [Project]* | Capstone Project

- Developed a website like Wikipedia, but focused on Countries (General Information, Cities, Events, Weather).
- Pioneered it with Flask as backend, with HTML-CSS-JavaScript as Frontend.
- Implemented the data through several open-source websites as well as external Rest APIs, that were then stored in a MS SQL Database for the structured and static data, and MongoDB for the dynamic and unstructured data.
- Designed an advanced natural language processing model through spaCy for entity recognition, that helped in extracting the country names within the search engine to perform parallel searches.