

Aya Saati

Aspiring Software Engineer

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Professional Summary

Aspiring Software Engineer with a strong foundation in Computer Science and hands-on experience across full-stack, mobile, and machine learning development. Skilled in designing and implementing scalable applications using modern frameworks and programming languages.

Education

42 Beirut – Beirut, Lebanon

May 2025 – Present

Core Curriculum Student

Intensive project-based software engineering program focused on C/C++, networking, algorithms, problem solving, and system programming.

Achievements:

- Built strong analytical and debugging skills through hands-on programming and networking projects.
- Adapted quickly to new technical challenges in a fast-paced, self-directed environment.
- Collaborated with peers through teamwork and peer evaluation.

Lebanese International University Beirut, Lebanon

October 2021 – June 2024

B.S. in Computer Science.

Excellent inclusion of Dean's List and graduation with distinction. (GPA: 3.88/4.00)

Experience

ZAKA – Beirut, Lebanon

September 2024 – May 2025

Machine Learning Engineer Intern

Completed the 20-week Machine Learning Specialization training program to prepare for a Machine Learning Engineer position. The program covered the following topics: fundamentals of Data Science, Machine Learning algorithms, Deep Learning, Computer Vision, Natural Language Processing, ML in Production, and ML in Research.

- Designed and implemented advanced Machine Learning and Deep Learning solutions.
- Developed strong problem-solving skills through coding challenges.
- Applied best practices in Machine Learning and Deep Learning development.

Projects

Minishell Project

Description:

Designed and implemented a UNIX shell from scratch, replicating core Bash functionalities including command execution, pipes, redirections, and built-in commands.

Achievements:

- Implemented command parsing and tokenization for complex shell inputs.
- Built shell built-ins with proper error handling and Bash-like behavior.
- Developed support for pipes and i/o redirections for chained command execution.
- Handled UNIX signals to closely replicate Bash signal behavior.

Technologies: C, Bash, Makefile

ZAKA Capstone Project: Recipe Recommendation System

Description:

Built an LLM-driven system to recommend recipes based on image inputs, utilizing semantic analysis and a vector database for efficient retrieval, with API deployment via a web framework and containerization.

Achievements:

- Integrated LLMs for semantic feature extraction from images.
- Implemented a vector database for efficient similarity search.
- Deployed a RESTful API for accessing recipe recommendations.

Technologies: Lang chain, Hugging Face, Chroma DB, Flask, Docker, Python

Full Stack Senior Project, DermaGlow Skin Care Website

Description:

An easy to use E-Commerce skin care website that helps beginners understand their skin type through an algorithm built quiz based on expert's questions. The algorithm will also display a wide range of products based on their determined skin type, allowing them to customize their own routine.

Achievements:

- Assisted clients in finding their skin type based on experts' solutions.
- Determined what products best suits each client based on recommendations
- Presented quality and premium selection products
- Provided clients with personal skin care routine and guidance

Technologies: LINQ, HTML5, CSS3, JavaScript, Bootstrap, Laravel, PHP, AJAX, JQUERY, MYSQL

Mobile Project, Hotel Reservation Application

Description:

An easy to use mobile application that helps the customer book a hotel reservation with different specifications.

Achievements:

- Provided options for clients to customize their hotel reservation type.
- Extracted clients' data from forms to be used in reservation confirmation and payment.

Technologies: Dart, Flutter, API, JSON...