

# RAYAN ZAITOUNI

## AI & Software Engineer

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### Profile

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Fifth-year Software Engineering student and proactive self-learner, skilled in AI, Machine Learning, and Full-Stack Development. Passionate about creating impactful, cutting-edge solutions and thrive in collaborative environments that challenge and expand my technical expertise.

### EDUCATION

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#### Antonine University

Bachelor of Engineering in Computer and Communicational Engineering.

Focusing on Software Engineering.

*Lebanon*

*2021 – 2026*

### WORK EXPERIENCE

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#### - Inmind.ai Academy

*Lebanon*

##### Machine Learning Internship

*July 2025 – August 2025*

- Explored NLP and LLMs, focusing on RAG architectures and language model applications, and applied PyTorch to implement and experiment with models for NLP and computer vision tasks.
- Practiced computer vision tasks such as object detection and semantic segmentation, with exposure to synthetic data generation.
- Developed and practiced with AI agents (LangChain, Google ADK) leveraging MCP and A2A, while exploring MLOps basics using Docker.

#### - Upscale-Hub

*Lebanon*

##### Flutter Engineer Internship

*March 2025 – June 2025*

- Developed a cross-platform mobile app using Flutter, ensuring consistent performance on Android and iOS.
- Implemented MVVM architecture to improve code maintainability and scalability.
- Integrated Firebase as the backend for authentication, data storage, and real-time updates.

#### - Integrated Digital Systems (IDS) Academy

*Lebanon*

##### .NET Full-Stack Developer Internship

*May 2024 – June 2024*

- Designed user interfaces with HTML, CSS, and JavaScript, and developed robust back-end functionality using C#.
- Worked with SQL Server and Entity Framework to design and integrate databases, ensuring efficient data handling.
- Built secure RESTful APIs with ASP.NET Web API, implementing authentication and authorization.

### SKILLS

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- **Programming:** Python, Java, C++, Dart, C#, HTML/CSS, JavaScript.
- **Frameworks:** PyTorch, Scikit-learn, OpenCV, NLTK, FastAPI, ASP.NET, NodeJS, Flutter, LangChain, Google ADK.
- **Specializations:** LLMs, Generative AI, RAG, Computer Vision, Web & Mobile Development.
- **Tools & Platforms:** Firebase, MCP (Model Context Protocol), A2A (Agent-to-Agent Communication), Docker, Git.
- **Data Management:** SQL (PL/SQL), NoSQL.
- **Soft Skills:** Teamwork, Problem-Solving, Time Management, Attention to Detail.
- **Languages:** English, Arabic.

### RELATED PROJECTS

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#### - Real Estate Investment Analysis System

*2025*

- Developed a multi-agent AI system with RAG pipelines for intelligent property insights and investment recommendations.
- Architected A2A-based agent orchestration for seamless collaboration between specialized agents.
- Built a FastAPI backend with robust error handling for real-time investment analysis.
- Fine-tuned a Qwen-2.5 model using LoRa on real estate data to deliver optimized investment advisory.

#### - Smart Clothing Suitability System

*2024*

- Fine-tuned a YOLOv8s model to detect clothing via webcam using Ultralytics and OpenCV.
- Integrated speech recognition and OpenAI API to process event-based queries and validate clothing suitability.

### CERTIFICATIONS

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#### - Hackathon Winner - Antonine University & Upscale Hub:

*2025*

- Developed “MoodLift”, an app tracking mental health, using Flutter and NodeJS.

#### - IBM Machine Learning Professional Certificate (Coursera):

*2024*

- Covered Exploratory Data Analysis, Supervised & Unsupervised Learning, Deep & Reinforcement Learning.