

Mohamed El Nakouzi

Software Engineer

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Summary

Full-Stack AI Developer and Honors with Distinction Mechatronics Engineering graduate with **1+ year of professional experience** and **2+ years of project-based experience**. Skilled in building AI-enabled applications using **Java, Spring Boot, Python, FastAPI, Angular, and Next.js**, with experience in **AI agents, machine learning, computer vision, REST APIs, SQL databases, Docker, and production deployment**.

Experience

Globalistic Tech Offshore, Byblos, Lebanon

AI Software Engineer

May 2025 – May 2026

- Developed and maintained **AI-enabled web applications** and backend services, integrating intelligent features to automate workflows and improve application functionality.
- Built **Docker-based services** and **n8n automation workflows** to connect APIs, streamline repetitive processes, and support production-ready software solutions.

Unity Developer

May 2025 – Feb 2026

- Developed **AR/VR Unity applications** with interactive user interfaces, real-time asset rendering, and stable 3D experiences.
- Optimized application performance, integrated assets and plugins, and supported compatibility across different devices.

Research and Development Engineer

Mar 2025 – May 2025

- Worked on exploratory software and AI development across **full-stack applications, backend APIs, database design, and machine learning integration**.
- Used **Angular, FastAPI, PostgreSQL, Python, and Hugging Face Transformers** to prototype technical solutions and support early-stage product development.

Frontend Developer Trainee, CreoHub Training Program

Feb 2025 – Mar 2025

Remote

- Built responsive frontend interfaces using **Next.js, JavaScript, HTML, CSS, Tailwind CSS**, and **Swiper.js**.

Mathematics Tutor, Lebanese American University

Sep 2023 – Dec 2023

Byblos, Lebanon

- Delivered weekly Calculus III tutoring sessions for sophomore and junior university students.

Education

B.E. in Mechatronics Engineering, Lebanese American University

Sep 2022 – May 2026

Byblos, Lebanon

- Graduated with **Honors with Distinction**; CGPA: **3.74**.

Projects

T.A.C.T: Tactical Augmented Coaching Translator

Sep 2025 – Present

- Developed an **AI-powered AR basketball training system** that converts tactic-board drawing videos into **real-time 3D player animations** for clearer coach-player communication.
- Designed a multi-service backend architecture using **FastAPI** for AI and computer vision workflows and **Spring Boot** for the main application architecture, data management, APIs, and integration with

the Unity AR application.

- Integrated Roboflow-based human detection, tracking, action verification, and pose evaluation components into the computer vision workflow.

Menufy: AI-Powered Digital Menu SaaS

Jun 2026 – Present

- Developed a **multi-restaurant digital menu platform** with a **Next.js frontend** for public menus, restaurant administration, bilingual English/Arabic browsing, and role-based management.
- Built a **Spring Boot backend** connected to PostgreSQL/Neon, supporting restaurant data, authentication, menu APIs, and a **Gemini-powered AI chatbot** for menu questions and recommendations.

AURA: Augmented University Real-Time Assistant

Sep 2025 – May 2026

- Developed an **AI-powered university assistant** supporting AI Tutor conversations, asynchronous lecture generation, and automated assessment generation.
- Built **agentic AI workflows** using **LangChain** and **LangGraph**, and deployed the platform using **Docker**, **AWS**, and **Nginx** for production server access.

Reach: Creator–Brand Collaboration Platform

Jun 2025 – Jul 2025

- Contributed to a **full-stack creator–brand collaboration platform**, with a **Java Spring Boot backend** handling authentication, user accounts, and REST APIs for creator and brand profiles.
- Implemented backend features using **Spring Security**, **JWT**, **Spring Data JPA**, and **PostgreSQL**, while supporting integration with the **Angular frontend**.

SAM Libraries: Internet-Based Bookstore

Sep 2024 – Dec 2024

- Developed an online bookstore using **Angular**, **FastAPI**, and **MySQL**, allowing users to borrow or purchase books and providing category filtering and administrative book management.
- Integrated **Gemini-powered AI assistance**, book image previews, and librarian service booking.

Skills

- **Programming Languages:** Python, TypeScript, JavaScript, Java, C#, SQL
- **Frameworks, Libraries, and Databases:** Spring Boot, Angular, Next.js, Node.js, FastAPI, Streamlit, Tailwind CSS, Swiper.js, MySQL, PostgreSQL
- **AI, Automation, and Data:** AI Agents, Machine Learning, LangChain, LangGraph, Gemini, Roboflow, n8n
- **DevOps and Deployment:** Docker, AWS, Nginx, Production Server Configuration
- **Engineering and Mechatronics:** Unity, MATLAB, SOLIDWORKS, Control Systems, Electronics, Robotics

Achievements, Certificates & Extracurricular Activities

- **Spring Boot 3 Essential Training** – LinkedIn Learning Certificate.
- **Leadership Foundations** – LinkedIn Learning Certificate.
- Ranked **1st in South Lebanon** and **4th nationwide** in the 2022 Lebanese Baccalaureate.
- **IEEE AI Club and Google Developer Student Club:** Participated in student technology communities focused on AI, software development, and engineering innovation.
- **Volunteer Work at Al Reaaya:** Contributed **over 150 hours** to data collection, organization, and the distribution of food and medical equipment to elderly individuals, orphans, people of determination, and low-income families.

Languages

Arabic: C2 | English: C2