

Mohammad Rostom

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SUMMARY

Full Stack Software Engineer experienced in building AI-powered systems and microservices, including RAG-based solutions with LangChain and vector databases. I thrive in collaborative environments where clear communication, knowledge sharing, and teamwork drive better technical outcomes. I enjoy working closely with cross-functional teams to turn complex ideas into practical, production-ready solutions.

Proficient in Laravel, React, and TypeScript, I focus on delivering scalable, maintainable features using Docker, AWS, and clean architecture principles.

EXPERIENCE

Software Engineering Intern – CodVeda

Aug 2025 – Sep 2025 | India (Remote)

- Contributed to development of CodVeda's internal WorkspHERE platform as part of a 5-6 person cross-functional engineering team.
- Built and refined 8+ reusable React 19 (Vite) and Tailwind CSS components with lazy-loading and memoization, improving page load performance by 15%.
- Implemented and integrated 20+ RESTful APIs using .NET 8, optimizing endpoints to reduce average response time from 250ms to 120ms.
- Participated in Agile ceremonies: stand-ups, code reviews, and sprint planning.

Software Engineering Trainee – FSE Factory

Sep 2025 – Feb 2026 | Lebanon (Hybrid)

- Completed a project-driven bootcamp focused on building production-quality applications and collaboration workflows.
- Delivered 6 end-to-end projects emphasizing clean, maintainable architecture and scalable design.
- Designed and integrated AI-powered solutions, applying System Design principles, including RAG systems that improved query relevance by 40%, AI-agent integrations, and workflow automation with n8n that reduced workflow creation time by 70%.
- Collaborated with engineers and UI/UX designers in team projects and a hackathon setting.
- Led backend development for a 3-person team building a Hiring ATS with RAG-based AI integration, enforcing naming conventions, file structure standards, and clean coding practices.

EDUCATION

Lebanese University – Hadath, Lebanon

Sep 2025

Bachelor's Degree in Computer Science

GPA: 3.3 / 4.0

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C#, PHP

Frameworks & Libraries: React (Vite), Laravel, .NET Core, Node.js, LangChain

AI/ML & Data: RAG systems, Vector databases (Qdrant), AI API integrations, AI agents, MySQL, PostgreSQL, MongoDB

DevOps & Tools: Docker, AWS, n8n, Git/GitHub, CI/CD, Agile

PROJECTS

FlowPilot - AI-Powered n8n Workflow Generator

Dec 2025 – Feb 2026

- Built an application that generates complete n8n workflows from natural-language prompts using a RAG/ML-based AI pipeline (TypeScript, Vite + React, Laravel, LangChain, Qdrant vector DB, MySQL).
- Designed and implemented three microservices that analyze the n8n codebase to automatically extract node schemas using TypeScript AST parsing, achieving 80% more efficiency and accuracy than naive regex-based approaches, then indexed them in Qdrant vector database for AI processing.
- Developed an AI-powered system that generates custom n8n nodes from natural language requirements, using a LangChain-based agent to produce production-ready and testable workflow components.
- Applied problem-solving techniques to address data anomalies from outdated schemas and implemented prompt injection detection using ZOD library to ensure correct structural returns from AI systems.