

Mohammad Zeidan

+961 78 776 281 | mohammadczaidan@gmail.com | linkedin.com/in/engmohammadz | github.com/MohammadCZeidan | Beirut, Lebanon

SUMMARY

AI Engineer building production systems at the intersection of LLMs and real world infrastructure. I ship agentic AI pipelines, RAG systems, and computer vision applications from prototype to deployed. Experienced owning the full stack from vector search, prompt engineering, and LLM integration to React frontends and cloud deployments. I build systems that are fast, observable, and deliver measurable outcomes.

EDUCATION

SE Factory

Beirut, Lebanon

Full-Stack Software Engineering Bootcamp

Nov 2025 – Feb 2026

- Completed intensive program in React, React Native, Node.js, NestJS, Laravel, FastAPI, Docker, and CI/CD pipelines.
- Delivered production-ready applications with focus on backend API design, system architecture, and cloud deployment.

Istanbul Esenyurt University

Istanbul, Turkey

Bachelor's Degree, Computer Engineering

Graduated 2025

- Coursework: Data Structures & Algorithms, Database Systems, OOP, Software Engineering, Artificial Intelligence.

EXPERIENCE

raW / WZWZ

Remote

Full-Stack AI Engineer

Jan 2026 – Present

- Architected and shipped an anonymous community platform with real-time messaging, gamification, onboarding flows, and AI-powered moderation supporting 10+ concurrent community rooms.
- Built full stack systems using React, TypeScript, Supabase, PostgreSQL, and Tailwind CSS with Supabase RLS based authentication and role separation across user types.
- Integrated AI-assisted content moderation and intelligent processing workflows, reducing manual review overhead by an estimated 40%.
- Instrumented analytics and error monitoring using PostHog and Sentry, enabling funnel tracking, retention analysis, and real time error alerting across the platform.
- Designed real-time communication architecture with database indexing and scalable infrastructure handling concurrent user sessions.

Aegis Ignis

Remote

Full-Stack / AI Engineer

Dec 2025 – Jan 2026

- Developed an AI-powered real-time monitoring platform for fire, smoke, intrusion, face recognition, and occupancy detection across live camera feeds deployed to production within 6 weeks.
- Implemented YOLOv8-based detection pipelines and optimized inference workflows, reducing detection latency by 35% while maintaining frame level accuracy.
- Designed RESTful backend services with FastAPI and automated alerting workflows using n8n, Docker, PostgreSQL, Redis, and MQTT.
- Architected event driven microservices infrastructure to decouple detection, alerting, and logging pipelines for independent scaling.

Lumen

Remote

AI / RAG Systems Engineer

Mar 2026 – May 2026

- Built an AI-powered recruitment copilot and ATS using Retrieval-Augmented Generation, cutting average CV screening time by 60% across the review pipeline.
- Designed candidate analysis workflows for CV screening, interview preparation, and intelligent ranking — processing structured and unstructured documents at scale.
- Implemented RAG pipelines using vector databases (ChromaDB, Qdrant), embeddings, and semantic search to retrieve candidate insights and generate structured scorecards.
- Engineered prompt engineering workflows and document processing pipelines to improve retrieval precision and reduce hallucination rates in generated recommendations.

PROJECTS

- Agentic AI Knowledge Platform** | *RAG, Multi-Agent, LangChain, Qdrant, OpenAI API* 2026
- Designed multi-agent AI workflows capable of autonomous planning, retrieval, reasoning, and tool-calling — reducing task completion steps by 3x vs. single-agent baselines.
 - Implemented RAG system using vector embeddings and semantic search, improving retrieval precision by 40% through context optimization and prompt engineering.
 - Built AI agents that interact with external APIs, structured knowledge bases, and document stores autonomously.
- WOW724 — Logistics & Warehouse Tracking Platform** | *FastAPI, React, PostgreSQL* 2026
- Delivered full-stack warehouse and driver tracking platform for 50+ daily active drivers, reducing operational reporting time by 30%.
 - Built real-time dashboards for warehouse KPIs, driver activity, and task coordination — enabling management decisions backed by live data.
- HomeLife — Smart Home Management System** | [GitHub](#) | *FastAPI, React, PostgreSQL* 2025
- Led backend development for a smart home platform supporting device control, pantry management, budgeting, and automation — handling 15+ device modules with REST APIs.
 - Optimized database queries and models to improve system response time by 25% under concurrent request loads.
- EduFlow — HR Training Management Platform** | *SE Factory Hackathon Winner* | *FastAPI, Streamlit, n8n* 2025
- Developed full-stack training management system with JWT authentication, RBAC, analytics dashboards, and participant tracking — built and demoed in 48 hours.
 - Automated data pipeline connecting Google Drive, n8n, Airtable, and FastAPI, eliminating manual data entry across the HR workflow.
- Real-Time Chat Application** | [GitHub](#) | *Node.js, WebSockets, PostgreSQL* 2025
- Engineered real-time messaging platform with persistent message storage, authentication, and low-latency user-to-user communication supporting concurrent sessions.

TECHNICAL SKILLS

AI & LLM Systems: RAG Pipelines, Agentic AI, Multi-Agent Workflows, LangChain, OpenAI API, Prompt Engineering, Embeddings, Semantic Search, Vector Databases (ChromaDB, Qdrant), Computer Vision, YOLOv8, Face Recognition, NLP, Model Evaluation

Backend: FastAPI, Node.js, NestJS, Laravel, REST API Design, Microservices Architecture, Authentication, Supabase, Event-Driven Systems

Frontend: React, Next.js, SvelteKit, React Native, TypeScript, Tailwind CSS, Streamlit

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis

Automation: n8n, Workflow Automation, AI Automation Pipelines

Infrastructure & Observability: Docker, AWS EC2, Vercel, GitHub Actions, CI/CD Pipelines, Sentry, PostHog, Postman, Figma

Languages: Python, TypeScript, JavaScript, PHP, SQL, Java, C++, C#