



# Rayane Younes AGABI

## Senior AI Systems Engineer | Frontend Architecture

Senior Software Engineer with 9+ years of experience across Saudi Arabia, France, Australia, and Algeria, specializing in Frontend architecture, scalable application development (Angular, React and VueJs), and enterprise AI systems (RAG, Chatbots, Prompt Engineering, AI-driven product features).

## Skills & Expertise

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- **Enterprise AI Systems Integration:** LLM Orchestration, RAG, AI Microservices, Model Routing, Token Optimization, Prompt Engineering, AI Guardrails, Context Management, Multi-tenant AI Systems, Groq, AI Chatbots, Summarization, Classification
- **Frontend Architecture:** Angular, React.js, Vue.js, TypeScript, RxJS, Vuetify, component architecture, SCSS
- **Data & Visualization:** ECharts, Leaflet, Chart.js
- **Geospatial & Map-Based Systems:** Google Maps API, Leaflet, geofencing, live tracking, operational maps

## Work Experience

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### Senior Software Engineer - AI Systems & Frontend Architecture SAHAB, Saudi Arabia | 2023 - Present

- Architected a centralized Spring Boot AI orchestration service reused across AIEMS, Tafaqd, and Wareed, standardizing RAG, LLM chatbots, intelligent search, summarization, classification, quiz generation, and content-generation workflows.
- Implemented production-grade LLM guardrails including prompt-injection detection, role-aware retrieval, output validation, token limits, safe streaming, and cost-aware model routing.
- Reduced LLM token consumption by 65% through prompt optimization, context reuse, request structuring and centralized orchestration.
- Delivered Angular modules for EMS dispatch, inspection, compliance, training, live tracking, geospatial dashboards, and operational decision-support workflows.
- Contributed to AIEMS capabilities associated with reducing urgent ambulance response time from 23 to 12 minutes and supporting a nine-figure SAR enterprise/government contract.
- Built a reusable Angular AI Assistant NPM library for SAHAB products, standardizing chatbot integration, streaming responses, and configurable UI behavior across multiple enterprise platforms.

### Full Stack Software Engineer Naxxum, France | 2022 - 2023

Developed enterprise platforms for clients across France, Saudi Arabia, and Algeria, delivering supply chain, operations, supplier management, and invoicing solutions. Contributed across frontend and backend layers using Angular, Vue.js, .NET Core, and microservices architecture.

### Frontend Software Engineer ADEX Technology, Algeria | 2021 - 2022

Developed enterprise and SaaS platforms across cloud, training, integration, events, and marketplace domains, building reusable Vue.js components, dashboards for multiple digital products.

### Junior Technical-Functional ERP Consultant Atom, Algeria | 2020 - 2021

Translated business requirements into functional and technical specifications, supporting ERP implementation, user training, and client delivery.

### Software Engineer I Digitalex, Algeria | 2017

Contributed to the Hawesse platform as a Junior Frontend Developer and Database Data Entry Agent, supporting frontend development tasks, structured data entry, database content updates, and operational platform maintenance.

# SELECTED PROJECTS

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## AIEMS - Emergency Medical Services Platform

Contributed to the frontend and AI architecture of an EMS platform supporting emergency operations, ambulance dispatch, live tracking, geospatial dashboards, and operational decision-making. Built Angular modules, map-based workflows, Power BI integrations, and AI-assisted capabilities through the shared SAHAB AI microservice.

**Stakeholders:** major Saudi emergency-response and healthcare organizations, including government and critical operations entities.

**Impact:** contributed to reducing urgent-case ambulance response time from 23 to 12 minutes and supported a nine-figure SAR enterprise/government contract.

## TAF AQD - Inspection & Compliance Platform

Developed Angular-based inspection and compliance modules covering visit planning, incident management, audit workflows, dynamic forms, dashboards and role-based access control. Integrated operational dashboards, and AI-assisted inspection capabilities through the shared AI microservice.

**Stakeholders:** Saudi public-sector and enterprise organizations across Hajj, tourism, telecom, and compliance domains.

## Wareed - AI-powered Training Platform

Built AI-enabled training workflows for Admin, Provider, and Student users, including automatic quiz generation, chatbot assistant, natural-language course search, course content generation, and bilingual user experiences. Developed scalable Angular interfaces and integrated AI capabilities through reusable backend endpoints.

# EDUCATION

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## Master's Degree - Intelligent Computer Systems Engineering AI

Algiers University | 2018 - 2020

## Bachelor's Degree - Computer Systems

Algiers University | 2015 - 2018

# Early Experience

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## AI | ML & NLP Research Internship

Deakin University, Australia | 2019 - 2020

Developed an intelligent question-answering system based on Deep Learning and NLP, including a Wikipedia-based search engine.

Algeria Post, Algeria | 2018

## Full Stack Web Developer Intern

Designed and developed an information system for managing Algeria Post digital identifiers and the IDNAP web platform.

# LANGUAGES

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- **Arabic:** Native
- **French:** Fluent
- **English:** Professional

# Contact

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**Location:** Riyadh - Saudi Arabia

**Email:** younes.agabi03@gmail.com

**Phone:** +966 55 169 2126

**LinkedIn:** linkedin.com/in/younes-agabi

**Portfolio:** younesagabi.com