

# ALI JAWWAD

## AI Automation Engineer | Full-Stack Engineer

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### SUMMARY

AI Automation Engineer and Full-Stack Engineer (5+ yrs) shipping agentic AI systems and production web apps. Open-source code merged into OpenAI's Agents SDK (27K★, v0.14 release) and GitHub's spec-kit (111K★, two PRs). Specialized in n8n workflow orchestration, LLM integrations (Claude, GPT-4o), RAG pipelines, and Next.js + Python/FastAPI. Lead instructor for 1,500+ students at Pakistan's largest government tech program.

### CORE SKILLS

**AI & Automation:** n8n (self-hosted & cloud), OpenAI Agents SDK, Claude API, GPT-4o, RAG (pgvector, Qdrant), Prompt Engineering, LangChain, MCP servers, Vapi voice agents, Webhooks

**Frontend:** Next.js 15 (App Router), React, TypeScript, Tailwind CSS, Redux Toolkit, GSAP

**Backend & Data:** Python, FastAPI, Django, Node.js, REST APIs, PostgreSQL, Prisma ORM, Sanity CMS, HubSpot & Twilio integrations

**DevOps:** Docker, CI/CD (GitHub Actions), Vercel, Git, Jest, Pytest

### PROFESSIONAL EXPERIENCE

#### Full-Stack Web Developer

Jan 2025 – Present

*Avialdo Solutions — Remote*

- Built FastAPI endpoints and webhooks that n8n workflows trigger to sync content between Sanity CMS, Claude API, and PostgreSQL — replacing manual content ingestion and lead enrichment
- Designed prompts for Claude and GPT-4 producing consistent JSON outputs across 1,000+ daily automation runs — used for classification, extraction, and data transformation in production pipelines
- Containerized services with Docker and built GitHub Actions CI/CD pipelines, standardizing deployments across the team

#### Lead Instructor — Full-Stack & AI Track

Jan 2024 – Present

*GIAIC, Governor House Sindh IT Program — Karachi, Pakistan*

- Lead instructor for 1,500+ students at Pakistan's largest government-backed tech education program — Full-Stack Web Development and AI Agents tracks
- Designed end-to-end curriculum spanning React, Next.js, TypeScript, Python, prompt engineering, and n8n agentic workflows; built assignments and capstones mapped to real hiring requirements

#### Full-Stack Developer

Jan 2021 – Dec 2023

*Lusion Tech — Remote*

- Cut page load times by 40% on production Next.js apps via code splitting, lazy loading, and bundle optimization
- Built headless CMS architecture with Sanity.io, REST API integrations, and PostgreSQL via Prisma ORM across e-commerce, SaaS, and educational platforms
- Wrote unit and integration tests with Jest and React Testing Library, maintaining reliability across rapid release cycles

### FEATURED PROJECTS

#### Self-Healing RAG Pipeline — n8n · Postgres/pgvector · OpenAI · [alijawwad.com/projects/self-healing-rag](http://alijawwad.com/projects/self-healing-rag)

RAG system that grades its own answers with a judge LLM, detects embedding drift, diagnoses failures with an investigator agent, and A/B-tests fixes on a canary — 13 production n8n workflows; promoted a +0.36 completeness win on real data.

#### Langley — Multi-Agent Crypto Risk Analyst — OpenAI Agents SDK · GPT-4o · FastAPI · [alijawwad.com/projects/langley](http://alijawwad.com/projects/langley)

Three specialist agents flag Solana token scams with cited on-chain evidence; a deterministic safety gate can override the LLM only toward the safer verdict — F1 ≈ 0.94, zero fatal errors on a held-out, outcome-verified set.

#### LeadCounsel — After-Hours Voice Intake for Law Firms — Vapi · n8n · HubSpot · Twilio · [alijawwad.com/projects/leadcounsel](http://alijawwad.com/projects/leadcounsel)

Voice agent answers in under 2 seconds, runs a deterministic 4-part qualification gate with human-review edge flags, creates prefilled HubSpot deals, and texts the on-call attorney within 60 seconds — idempotent webhook handling throughout.

#### AI Customer Support Agent — Python · FastAPI · OpenAI Agents SDK · pgvector · [alijawwad.com/projects/ai-support](http://alijawwad.com/projects/ai-support)

Multi-channel support across Gmail, WhatsApp, and Web — an 11-tool agent with semantic search over knowledge bases, automatic human escalation, and 258 automated tests; handles 500+ conversations daily.

#### Klyent — Wix ↔ HubSpot Bi-Directional Sync — Next.js · TypeScript · OpenAI · [alijawwad.com/projects/klyent](http://alijawwad.com/projects/klyent)

AI-powered field mapping cut manual data entry by 80%, with automated weekly reporting across 50+ client accounts.

### OPEN SOURCE CONTRIBUTIONS

**OpenAI Agents Python SDK (27K★)** — code merged into the v0.14 release (PR #3027): tool-call introspection accessors, reviewed and approved by an OpenAI maintainer. Second PR under review (#3591).

**GitHub spec-kit (111K★)** — two merged PRs (#2916, #2883): preserved argument-hint in extension commands; removed dead code from the CLI.

**n8n (192K★)** — open PR to the core AI Agent node (PR #29148): honor returnIntermediateSteps when persisting tool steps to memory.

### EDUCATION & CERTIFICATIONS

**PIAIC** — AI Agents & Cloud Native Development

2024 – 2025

**PIAIC** — Full-Stack Web Development

Jan 2020 – Dec 2021