

Ali Hashem

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Professional Summary

Senior AI Engineer & Full-Stack Developer specializing in building sophisticated Agentic Workflows and enterprise automation ecosystems. Proven track record of transforming complex operational requirements into production-ready technical solutions at an exceptional pace (delivering up to 5x faster than industry benchmarks). Expert in orchestrating Large Language Models (LLMs) with robust business logic to minimize human intervention, reduce operational costs, and maximize efficiency using Python, n8n, and Next.js.

Technical Skills

- **AI & Automation:** Agentic Workflows, LLM Orchestration (OpenAI, Gemini, Anthropic), Prompt Engineering, n8n Core Architecture, Automated Triage, Sentiment Analysis & Vector Logic.
- **Engineering & Cloud:** Full-Stack Development, Robust System Design, Cloud Infrastructure (AWS), RESTful APIs & Microservices Architecture, Containerization (Docker).
- **Backend & Frontend:** Python (Flask), JavaScript / TypeScript, Next.js, React, WebSockets, Node.js.
- **Data & Tools:** PostgreSQL (Relational Design, PGVector & Optimization), SQL, Git, Linux, Pandas (Data Analytics), FFmpeg (Video Automation).

Work Experience

Orbit Code | Lead Full-Stack Engineer (Contract) | Jan 2024 – Present

- Direct the technical product lifecycle for customized B2B software architectures, prioritizing scalable cloud design and rapid cross-platform deployment.
- Integrate advanced AI-driven development tools into the SDLC to streamline coding workflows, reducing time-to-market for enterprise clients by over 60%.
- Collaborate directly with cross-functional stakeholders to architect robust relational database schemas and reliable API integrations ensuring high availability.

Independent Software Engineer & Automation Specialist | Jan 2023 – Present

- **Algorithmic Trading Bot (FinTech):** Developed a low-latency automated trading infrastructure using Python and Pandas to extract and analyze live XAUUSD (Gold) market data, executing strict risk-management and real-time logging protocols.
- **Content Automation Engine:** Built an optimized video processing pipeline utilizing Python and FFmpeg to automate rendering, editing, and programmatic reformatting for multi-platform distribution scales.
- **Integrated POS & Accounting Ecosystem:** Architected a high-reliability retail management solution utilizing Python and PostgreSQL, guaranteeing zero data loss, transactional safety, and real-time financial reporting metrics.

Key AI Projects

Enterprise AI Intake & Triage Pipeline | April 2026

[Access Production n8n Blueprint \(JSON Data\)](#)

- **Objective:** Designed and deployed a comprehensive end-to-end automation system to process, analyze, and categorize unstructured B2B customer communication requests dynamically.
- **Technical Execution:**
 - Developed an automated data ingestion workflow using n8n triggered via Webhooks for zero-latency real-time response.
 - Leveraged LLMs to autonomously classify incoming payloads (Bug Reports, Billing, etc.), assign dynamic priorities, and output confidence scores.
 - Engineered precise conditional Routing Logic to distribute parsed tasks across departments with a built-in Human Escalation flag for low-confidence models or high-value accounts.
 - Generated structured JSON outputs embedded with AI-summarized insights to drastically accelerate operational turnaround times.
- **Performance Metric:** Engineered and documented the entire system architecture in under 1 hour, outperforming the estimated 5-hour production benchmark by achieving an 80% increase in efficiency.

Education & Certifications

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TS in Information Technology | Amjad Institute, Lebanon (2024 – 2026)
- **AWS Certified Solutions Architect – Associate** | Learning Pathway (Expected Completion: Q4 2026)