

Hisham Al-Khayyat

AI & Automation Engineer

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PROFESSIONAL PROFILE

AI and automation engineer who ships LLM-powered production systems end to end, from requirements through deployment and ongoing operational ownership. Day-to-day work spans a TypeScript product monorepo and a set of self-owned Python services covering agentic workflows, document extraction and classification, data pipelines, and alerting. Builds primarily with agentic coding tools and authors the instruction contracts and review gates that keep that work reviewable. Comfortable translating operational needs into buildable requirements and keeping AI systems reliable for non-technical teams.

PROFESSIONAL EXPERIENCE

AI & Automation Engineer | Sooner Real Estate (Oct 2025 - Present)

- Ship features in a large TypeScript/Turborepo product monorepo spanning multiple apps and shared packages (Prisma, Docker), with every change going through pull request, peer and AI code review, and CI before merge.
- Delivered customer-facing platform features spanning document management, search and filtering, and recommendation tooling consumed by internal CRM services.
- Hardened a webhook-driven ingestion service under production load: tightened acknowledgement windows, added graceful shutdown drain, and eliminated late writes while preserving retry safety.
- Design, build, and own a portfolio of standalone production services on Railway and Supabase, covering scheduled data collection, messaging monitoring, document extraction, and document generation.
- Built large-scale market-data crawlers combining API-first collection with a headless-browser session layer, using adaptive partitioning and per-segment coverage thresholds so incomplete runs can never write misleading results downstream.
- Built a messaging-monitoring worker with Redis state tracking, LLM-based conversation review, and Slack alerting, scoped read-only by design so it cannot contact customers.
- Built a document pipeline that extracts identity and financial documents into a canonical JSON schema and feeds a deterministic PDF form filler, replacing manual data re-entry.
- Deliver primarily through agentic coding tools (Claude Code, Codex, Cursor), and author the repo-level agent contracts behind them: AGENTS.md/CLAUDE.md instruction sets, reusable agent skills, and definition-of-done gates across every repository I work in, so agent-assisted work stays reviewable and safe to merge.
- Write the runbooks, QA evidence, and deployment notes that ship with each change, and coordinate with business stakeholders so tools stay practical and measurable.

Junior Web Developer | Najjar Stores (Jun 2025 - Oct 2025)

- Built the company website from scratch in HTML, CSS, and JavaScript, owning it end to end from layout and styling through to a live deployment.
- Deployed and maintained the site on Railway using Git version control, handling releases, fixes, and ongoing content and feature updates.
- Supported OMEGA POS workflows for daily retail operations, diagnosing and resolving issues affecting sales processing and inventory records.
- Improved inventory and sales-data reliability through structured data entry and record validation across store systems, reducing recurring input errors.

ERP Intern - Microsoft Dynamics 365 Business Central | Coders (Jan 2025 - Mar 2025)

- Supported Business Central deployment work by building AL extensions and operational reports in Visual Studio Code.
- Executed data migration support using Excel, SQL, and PowerShell, with emphasis on accuracy, structure, and performance.
- Validated MySQL records, documented technical processes, and supported deployment troubleshooting across ERP workstreams.

Retail Sales Associate | Al-Khayyat Store (2020 - 2024)

- Handled customer-facing sales, issue resolution, inventory control, and merchandising, building the operational grounding that now informs systems work.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, HTML, CSS, SQL, AL

Backend & data: Node.js, Prisma, PostgreSQL, Supabase, Redis, Typesense, REST API integration, webhooks, scraping and ETL pipelines

Frontend: React, Next.js (App Router), Tailwind CSS

Infrastructure & tooling: Railway, Vercel, Docker, Turborepo, pnpm, Playwright, Git/GitHub, CI pipelines, cron workers, Linear

AI-assisted engineering: Claude Code, Codex, Cursor; agent instruction design (AGENTS.md/CLAUDE.md), reusable agent skills, MCP-surfaced tooling, multi-agent workflow coordination, review and QA gates for agent-generated code

Applied AI: LLM-based extraction and classification (OpenRouter, Gemini), OCR/PDF automation, prompt and evaluation design, Slack alerting

Business systems: CRM/HubSpot workflows, ERP and POS processes, Microsoft Dynamics 365 Business Central, requirements mapping, QA, deployment support

EDUCATION, CERTIFICATIONS & LANGUAGES

BSc Computer Science, Arab Open University (AOU) - Graduated, GPA 3.25

Power BI PL-300 certificate; Anthropic University Claude certificates; Elements of AI for Business - University of Helsinki

Languages: Arabic (Native), English (Fluent), French (Intermediate)