

Ali Nahhas

a.nahhas@mail.com | github.com/Ali-Nahhas | linkedin.com/ali-nahhas | [portfolio:ali-nahhas.com](https://portfolio.ali-nahhas.com)

Summary

Senior AI Engineer & Technical Product Manager with 7 years of experience designing and delivering production AI-powered software. Experienced in LLM integration, RAG pipelines, multi-agent orchestration, prompt engineering, evaluation frameworks, guardrails, and AI workflow automation. Strong TypeScript, Node.js, API architecture, cloud engineering, and technical leadership background, with end-to-end ownership from solution design to production delivery.

Skills

Languages: English (Bilingual), Arabic (Bilingual), Turkish (Elementary)
AI & Agentic Systems: LLM integration, AI agents, RAG pipelines, vector databases, multi-agent orchestration, agent frameworks, MCP, tool calling, context and memory management
AI Quality: Prompt engineering, evaluation harnesses, guardrails, automated testing, hallucination mitigation, observability, monitoring, reliability
Software Engineering: TypeScript, JavaScript, Node.js, React, Next.js, REST APIs, microservices, backend development, database integrations
Cloud & DevOps: Docker, CI/CD, Terraform, scalable cloud architecture
Leadership: AI architecture, technical ownership, ADRs, client collaboration, cross-functional delivery, code reviews, mentoring

Education

University of Essex – Master’s in Artificial Intelligence 2025 – Present

Experience

Molham Team International NGO

Digital Transformation Manager Jun 2025 – Jul 2026

Technical Product Manager Aug 2023 – Jun 2025

- Lead the architecture and delivery of production AI and automation systems across reporting, ERP, procurement, donations, supplier verification, and beneficiary operations.
- Built a natural-language reporting platform using LLMs, RAG, vector search, and structured tool calling, enabling users to query organizational data and generate reports, insights, and visualizations.
- Designed agentic workflows for bid analysis, supplier-offer comparison, document generation, translation, and operational decision support.
- Automated security and verification processes across thousands of supplier and beneficiary records, eliminating work equivalent to a full-time administrative position.
- Owned solution architecture, API integrations, technical planning, code reviews, developer mentoring, and stakeholder communication across multiple teams and projects.
- Supported systems handling more than USD 60 million during the [SYDF event](#) and approximately USD 500 million across multiple fundraising events.
- Built an NGO proposal writing agent workflow that uses custom sources and internal databases and systems across all departments of the organization
- Built a conversational voice agent that analyzes company-wide reports from structured and unstructured data sources, enabling users to explore insights and identify collaboration opportunities across subsidiaries.

Software Architect, Seenooks Dec 2024 – Jan 2026

- Designed the architecture for [Seenooks AR Capture](#), a browser-based AR and 3D furniture visualization platform.
- Built backend services and integrations supporting 3D models, product data, 360-degree views, and view-at-home experiences.

- Built a Blender automation to convert between different 3D formats and apply textures and edits automatically.

Solution Architect (Contract), Digital Spark

May 2023 – Jan 2024

- Planned and contributed to [oBook](#), an AI text-to-speech solution that transforms PDFs, documents, articles, and webpages into realistic audio.
- Designed the end-to-end processing pipeline for document ingestion, parsing, semantic chunking, retrieval, context management, language processing, and voice generation.
- Introduced reusable prompts, output validation, evaluation scenarios, error handling, and fallback mechanisms to improve production reliability.
- Designed an API-driven point-of-sale platform covering sales, inventory, receipts, reporting, and Saudi tax-system integrations.

Technical Product Manager (Contract), Genius Tags

Jan 2020 – Jun 2020

- Led the technical delivery of [GeniusChain](#), a humanitarian technology platform focused on transaction transparency, privacy, auditability, and accountability.
- Translated complex NGO processes into digital workflows for beneficiary verification, aid traceability, duplicate prevention, reporting, and system integrations.
- Evaluated technical approaches, defined product priorities, coordinated the engineering team, and communicated progress and requirements with clients.
- Led delivery of a social platform for NGO legal professionals, covering content feeds, profiles, search, notifications, privacy, moderation, and administrative tools.

Founding Engineer, Hypatia Tech

2019 – Jun 2023

- Built the core of [OpExams](#), a scalable examination platform used by more than 1,000 institutions.
- Built an AI anti-cheat system into OpExams which includes multiple face detection, object detection, eye tracking, and browser constraints coordinating multiple ML models together.
- Built and launched the [AI Question Generator](#), generating questions from text, topics, webpages, YouTube videos, PDFs, images, audio, and other content sources.
- Scaled the AI Question Generator to more than 10 million generated questions per month while contributing to its launch, product positioning, and monetization strategy.
- Converted complex educational workflows into automated product features for assessment creation, exam delivery, monitoring, reporting, and content generation.
- Built major parts of [OTTO Ed](#), a digital learning platform supporting live lectures, video conferencing, whiteboards, chat, and university learning workflows.
- Led developers across multiple products, including requirements breakdown, implementation planning, code reviews, mentoring, and delivery tracking.
- Developed a unified database query adapter that simplified integrations with different database technologies.
- Worked with designers to build a reusable design system with documentation, accessibility, theming, internationalization, and RTL support.