

Medhat Albsugy

Applied AI Product Engineer

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PROFESSIONAL SUMMARY

Applied AI Product Engineer and hands-on engineering lead with 13+ years shipping production web systems across fintech, digital assets, enterprise platforms, and AI products. Strong TypeScript, React, Next.js, and Node.js foundation, now focused on taking AI from prototype to production — agentic workflows, RAG, and LLM integrations built with LangGraph, LlamaIndex, the Vercel AI SDK, OpenAI, and vector databases. Known for turning ambiguous product problems into reliable, user-facing software in fast, high-iteration teams.

TECHNICAL SKILLS

AI & ML	LangGraph, LlamaIndex, Vercel AI SDK, OpenAI, Anthropic, agentic workflows, RAG, vector databases (Pinecone, Weaviate, Qdrant), LLM integrations, MCP, prompt engineering, evals
Languages	TypeScript, JavaScript (ES6+), Python, Node.js
Web / Frontend	React, Next.js, Remix, Astro, Redux, Zustand, TanStack Query, Jotai, TailwindCSS, CSS Modules
Backend / Data	REST APIs, GraphQL, tRPC, Server Actions, PostgreSQL, Prisma, Drizzle, Redis, IndexedDB, caching strategies
Quality	Vitest, Jest, Playwright, Cypress, Testing Library, TDD, Storybook, static analysis, accessibility, OWASP practices
Infra / DevOps	Docker, AWS (S3, CloudFront), Vercel, Netlify, GitHub Actions, CircleCI, Jenkins, GoCD, Nx, Turborepo, monorepos

EXPERIENCE

Applied AI Product Engineer Jul 2025 – Present
cMatter Abu Dhabi, UAE

Drive applied AI product development end to end — designing, prototyping, and shipping AI-powered solutions that connect real customer needs to production-grade engineering, with measurable adoption and business impact.

- Shipped agentic AI workflows from prototype to production by leading rapid experimentation and validation cycles, proving value early and lowering delivery risk before full-scale build.
- Translated customer and domain insights into engineering priorities, producing more intuitive AI-powered experiences and stronger product-market fit.
- Raised engineering quality across the stack by setting frontend, architecture, accessibility, security, and performance standards for scalable, maintainable AI systems.
- Reduced delivery friction by aligning product, design, data, and backend teams around shared outcomes, accelerating execution on high-impact initiatives.
- Owned solutions from discovery through delivery and iteration, driving customer-led product decisions and measurable experience improvements.

Staff Front-End Engineer — AI Integrations Dec 2024 – Jun 2025
cMatter Abu Dhabi, UAE

Drove product innovation at cMatter, an AI and advanced-ML platform for building energy management, from idea to launch.

- Built and shipped AI-integrated product features and prototypes, taking concepts from idea to working software.
- Led cross-functional initiatives shaping product direction and design experience across the platform.
- Integrated LLM and ML capabilities into user-facing workflows with a focus on usability, performance, and reliability.

Technical Lead | Senior Frontend Engineer Jan 2024 – Nov 2024
Baraka (YC S21) Dubai, UAE

- Led frontend architecture and delivery for a regulated fintech investment and trading platform built in React and TypeScript.
- Designed high-performance, secure, and user-friendly trading interfaces, and drove cross-functional collaboration to shape the product.

Senior Frontend Engineer Jun 2022 – Dec 2023
Copper.co London, UK

- Built and maintained Copper's institutional digital-assets and custody platform, integrating with complex backend and blockchain systems.
- Owned application performance and development standards across digital-asset products serving institutional clients.

Senior Frontend Engineer May 2021 – May 2022
Cognizant London, UK

- Built secure, robust, responsive web applications and mentored within an agile team to ensure high-quality delivery.

Senior Frontend Engineer Jun 2019 – Apr 2021
Publicis Sapient London, UK

- Engineered large-scale, transformative digital solutions across retail, financial services, energy, and automotive for enterprise clients.

Senior Frontend Developer Jan 2018 – May 2019
OMNIA Dubai, UAE

Delivered digital experiences for clients and bridged design and engineering teams to protect UX and requirements through delivery.

Senior Frontend Developer & UI Designer

Lucidya

Built secure web products and UI for startups; owned application architecture and UI implementation.

May 2017 – Dec 2017

Saudi Arabia — Remote

Frontend Developer

Albsugy TG (Freelance)

Built websites, WordPress themes, and web applications for startup clients; conducted market research and owned UI implementation.

Feb 2013 – Apr 2017

Remote

SELECTED PROJECTS

Junction — *TypeScript, NestJS, React, LangChain / LangGraph, MCP, vector DB, RAG*

Full-stack agentic workflow engine that orchestrates multi-step AI agents with tool use and retrieval over a clean, observable UI.

Anvil — *Agentic development shell (TUI prototype)*

AI coding shell with a reasoning phase, approvable execution plan, checkpoint/rollback, and a live context-window inspector.

Aegis — *AI agent security & validation tool*

Testing and red-teaming harness for probing agent behavior, guardrails, and failure modes before deployment.

Life OS — *React SPA, Anthropic API*

AI-native personal productivity app with ten integrated modules and live LLM calls for capture, planning, and knowledge management.

ADDITIONAL

- **Operating mode:** high ownership, fast iteration, pragmatic delivery, comfortable with ambiguity, hands-on coding, and cross-functional leadership.
- **Engineering habits:** code review, clean abstractions, test automation, observability mindset, security awareness, accessibility, and measurable performance.
- **Languages:** English (fluent), Arabic (native).