Hamza Abdul-Tawwaab

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Product engineer who designs the flow, writes the code underneath it, and owns the edge cases after it ships. Led engineering on a production SaaS platform (TypeScript, React/Next.js, Python/FastAPI, PostgreSQL on Azure): no PM layer between me and the product; I worked with the people who used it, designed every page, shipped it and ran it. Correctness first: every data batch ran as a dry run with integrity checks and rollback, and risky changes shipped dormant behind flags with parity gates. LLM features with measured quality (99.83% precision on a 14,000-record calibration split). Founded two software companies and launched four web products solo. 1,400+ pull requests.

SKILLS

Frontend & design	TypeScript, React 19, Next.js, Astro, React Native (Expo); designed every page of a production platform; design systems, accessible and right-to-left layouts (WCAG 2.1 AA checks)
Full stack	Python/FastAPI, SQLAlchemy; Node.js (Hono); PostgreSQL (EXPLAIN ANALYZE, materialized views, PgBouncer), Redis Streams, Elasticsearch, Cloudflare D1; REST APIs behind a gateway, WebSockets
Correctness	Transactional outbox, consumer groups, replay tooling, nightly reconciliation; dry runs, integrity checks, parity gates, per-catalog rollback; property and exhaustive tests; Playwright and pytest in CI
Security	Ory identity cutover, Entra ID SSO, OAuth/JWT with refresh-token rotation, authorization fixes, Azure Key Vault; CompTIA Security+; M.S. Cybersecurity in progress
Delivery	Azure Container Apps, Cloudflare Workers, Docker, GitHub Actions; Prometheus SLOs and alert rules, Sentry, OpenTelemetry, PostHog; Claude Code daily with human-owned review

EXPERIENCE

ScholarComp · Contract — academic-competition SaaS platform (web, mobile, data, operations)

Director of Engineering & Technology — Jan 2026 – Oct 2026
Head of Infrastructure & Security — Feb 2025 – Jan 2026

- **Owned the whole arc:** found what was worth building with operations staff, leadership and users, set scope, designed every scholarcomp.com page, and shipped the Next.js/TypeScript web platform, the Expo mobile app and the FastAPI services behind them; 1,400+ pull requests (1,291 merged).
- **Careful where it mattered:** owned the production deploy workflow: dispatch-only deploys with a release-state check, risky changes dormant behind flags with parity gates and per-catalog rollback; LLM-verified school matching reached 99.83% precision on a 14,000-record calibration split, and every batch ran as a dry run with integrity checks and rollback.
- **Data that never silently drifts:** built the search-freshness pipeline: changes written to a transactional outbox in the same transaction, drained to Redis Streams and applied by a consumer-group indexer; a staleness gauge with a 300 s SLO, four alert rules, nightly reconciliation and a replay CLI.
- **Agents under review:** built a QA agent (Playwright checks plus vision-model review) calibrated against a paid contractor's pass: it caught 18 of the 30 in-scope bugs plus 9 the contractor missed, and a change-fingerprint gate cut each sweep from ~$14 to $3–5; wrote the repo's agent guide, 15 Claude Code skills and two MCP servers.
- **Performance as a feature:** unified search ~3,080 ms to ~19 ms warm, measured as an SLO with Prometheus rules and runbooks; consolidated ~32 FastAPI microservices into 6 apps behind one gateway (liveness 40.6 s to 0.25 s).
- **Trust boundaries:** led the identity cutover to Ory, added Entra ID SSO and refresh-token rotation, and closed authorization flaws that exposed data about minors.
- **0 to 1 on product:** replaced ~19,800 lines of per-competition code with a configuration-driven results system (five generic views), relaunched in production Sept 2026; AI extraction turned 57 years of PDFs into ~148,000 validated records.

Musayyir LLC — Founder & CEO · software studio for businesses and nonprofits — Oct 2026 – present

- Founded a software studio and sets its package pricing; built an internal CRM with a REST API on Cloudflare Workers and D1 (800+ leads) and a bilingual (English/Arabic) client workspace that passes automated WCAG 2.1 AA checks on 22 pages.

Inheriting Islam LLC — Founder · software company, five products in development — 2026 – present

- Designed and launched four web products solo (Astro, TypeScript, Cloudflare), including Life Is Temporary, an inheritance calculator that shows every heir's share beside the rule it comes from; Murājaʿah has 199 automated tests and an upstream SDK fix to quran/api-js (PR #99).

AT&T — Security Sales Specialist, Atlanta · Client Solutions Executive, Dallas — May 2023 – Jan 2025

- Ran discovery with non-technical enterprise customers and scoped solutions with engineering teams; 135% of quota and a 20% shorter sales cycle.

EDUCATION & CERTIFICATIONS

- **M.S. Cybersecurity**, Georgia Institute of Technology · expected Dec 2027 · **B.A. Psychology**, The University of Memphis · Dean's List, 2022
- CompTIA Security+ ce · Azure Fundamentals · Azure Data Fundamentals · English (native), Arabic (B1) · 12 years teaching youth and adults