Shayaan Danish

Voice Agents · Knowledge Systems (RAG) · Agentic Ecommerce · Production AI

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SKILLS

Voice Agents Retell AI · Conversation Flow Design · Telephony · Multilingual Agents · Signed Webhooks (HMAC)
Agents & LLMs Tool Calling · Structured Outputs · Persistent Memory · MCP Servers · LLM Evaluation · Provider Fallback · Claude · Gemini · Qwen · DeepSeek
RAG & Knowledge Hybrid Search (Vector + Keyword) · Knowledge Graphs · Neo4j · Embeddings · Cited Answers · Permission-Aware Retrieval · Docling · OCR
Ecommerce Shopify Storefront API · Shopify Admin API · Cart Building · Inventory Checks
Backend & Frontend Python · TypeScript · FastAPI · REST API Design · MongoDB Atlas · React · Next.js · Vite
Production pytest · Contract Testing · Rate Limiting · Concurrency Control · Structured Logging · Cost Tracking · Railway · Google Cloud Run · Cloudflare Workers · IBM MQ

EXPERIENCE

Co-Founder & Lead Engineer · Stu — Aug 2025 – Present

Agentic AI for grocery ecommerce: a consumer app and a Shopify sales agent

- **Shipped the product:** open-beta web app with 100+ verified users. An agentic food concierge with persistent memory that plans meals around local brands, PKR prices and regional cuisine, then fills the cart.
- **Built the B2B offer:** put Stu inside Jourts, a demo storefront over real Shopify catalogue data, built to show store owners an AI that sells: shoppers say what they're cooking and Stu fills the Shopify cart.
- **Made it safe to sell through:** the Shopify cart is the source of truth. Unstocked picks show "Not stocked here" instead of being invented, swaps come only from the store's catalogue, and stock is checked before every order.
- **Controlled cost and load:** rate limits, concurrency control, capacity caps and staged usage allowances; event logging, least-privilege access, continuous deployment; swappable LLM provider with fallback.
- **Led the company side:** a team of three across engineering, business strategy, content and outreach; partnership outreach to grocery retailers and delivery platforms; content reached 14K+ Instagram views.

Integration Intern · Systems Limited — Jun 2025 – Jul 2025

- Set up, configured and validated IBM MQ message queues for enterprise integration pipelines.

PROJECTS

Patient Registration Voice Agent — 2026

Retell AI · Claude · FastAPI · MongoDB Atlas · React · Railway

- **Takes a clinic's intake calls end to end:** registers new patients in natural conversation, reads every detail back before saving, issues a member ID, and lets verified callers update their record. 12 locales, names in any script.
- **Designed for private data:** records open only on member ID + name + DOB; duplicates are flagged to staff, never revealed to callers; failed checks end the call without saying which detail was wrong.
- **Built for a live line:** 174 automated tests, including a contract test of every tool call the voice flow makes; API key or signed request on every route; staff dashboard with transcripts and per-call cost.

Knowledge System — Oct 2026

Neo4j (graph + vector index) · Gemini · MCP · FastAPI · React · Docling + OCR

- **Answers staff from the company's own documents** with numbered citations; a cited PDF opens at the exact page. Demo corpus: 2,100+ public documents of a bank and its regulator, ~41K chunks across 17 departments.
- **Turns unknowns into a to-do list:** "I don't know" is its own state, showing what was searched, the nearest sources and which department would know. Every gap is logged, so the company sees what it never wrote down.
- **Access control the model can't talk around:** permissions are enforced inside the database search; the model fills a query spec the server compiles with the access filter, checked on 20 test questions.

EDUCATION

BS Computer Science · FAST NUCES Karachi — 2022 – 2026

- CGPA: 3.07 · Final Year Project: AI grocery assistant with integrated cart, praised by external industry reviewers

A Levels · Cedar College, Karachi — Aug 2020 – Aug 2022

- Mathematics A · Physics A* · Computer Science A* · Chemistry A*

IGCSE · GEMS Metropole School, Motor City Dubai — Feb 2017 – Aug 2020

- Math 9 · Computer Science 9 · Chemistry 9 · Physics 8 · Biology 8 · English 8 · English Lit 8