

Shayaan Danish

Agentic AI · Ecommerce · E2E Systems · Multimodal & Robotics

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SKILLS

Agentic AI Agent Architecture · Custom Orchestration · LangGraph · Tool Calling · Structured Outputs · Deterministic Routing · Persistent Memory · RAG · BM25 Retrieval · MCP · Multimodal AI · Voice Agents · Prompt Engineering · Latency & Cost Optimisation · Claude · Gemini · GPT · Mistral · Qwen · OpenAI-Compatible APIs · llama.cpp · Local Deployment

Languages & Fullstack Python · TypeScript · JavaScript · Dart · SQL · C/C++ · React · Next.js · Vite · Flutter · FastAPI · Node.js · PocketBase · MongoDB · Shopify API · REST

Systems & Cloud System Architecture · Google Cloud Run · Cloudflare · Docker · Linux · Git · Middleware Integration · IBM MQ · Deployment & Ops

Embedded ESP32 · BLE · MQTT · WiFi · PWM/Servo Control · UART

Design & Research HCI · Design Thinking · Social Data Science · UI/UX · Product Design · User Research

Business & Growth Market Research · Business Development · B2B Partnerships · Go-to-Market · Content Strategy · SEO/GEO

EXPERIENCE

Stu · Co-Founder · CEO · Agentic AI · Ecommerce · Leadership · Marketing · Behavioural Science · B2B · Consumer Apps Aug 2025 – Present
B2B2C agentic AI company in the grocery space

- Consumer app: live in open beta as a web app with 100+ verified users. An agentic food concierge with persistent memory and structured outputs that plans meals, knows local brands, PKR pricing, and regional cuisine context, then assembles the grocery cart end to end
- Store integration: embedded a Stu-powered chatbot into a live Shopify storefront that builds the shopper's cart in place, over the store's own product catalogue.
- Production engineering: rate limiting, concurrency control, capacity capping, staged usage allowances, structured event logging, least-privilege production access, and continuous deployment across backend and frontend
- Business: market and behavioural research across the grocery and food delivery landscape; leading partnership development and currently in active outreach to grocery retailers and delivery platforms to bring the agent into their storefronts
- Team: leading three individuals with specialised skillsets across engineering, business strategy and monetisation, content, and outreach
- Growth: content strategy across Instagram, LinkedIn, and YouTube with 14K+ views on Instagram, backed by SEO and GEO research

Independent · Engineer · Open Source Maintainer · Content Creator 2025 – present

Robi · Multimodal · Gemini Live · Google ML Kit · ESP32 · BLE · Flutter

A physical AI agent that sees you, looks at you, and talks back

- Closed the perception-to-actuation loop: on-device face detection drives a BLE-linked pan/tilt servo rig in 1 degree steps, keeping Robi's head aimed at the user
- Streamed live audio and camera video to the Gemini Live API over WebSocket, fronted by an animated eye display rendering gaze and expression
- Built the full stack end to end: ESP32 firmware and multi-supply servo power architecture, BLE transport, Flutter app, and cloud AI across four technology layers

TeamStream · React · TypeScript · PocketBase · FastAPI · Cloudflare Tunnel · AGPL-3.0

Self-hosted shared task and time tracker, running in-house at Stu across the full team

- Sovereign single-box backend: PocketBase serves auth, data, SSE realtime and the built frontend from one binary behind a Cloudflare Tunnel, with systemd units, schema migrations, and a documented end-to-end deploy path
- Added a FastAPI service for chunked, resumable uploads to work around Cloudflare's 100MB request body cap, turning task attachments into a shared drive for multi-GB files
- Server-side hooks capture full before/after snapshots on every write so any change can be traced or revived, and cap runaway timers server-side rather than trusting the client

Agentic Tools

Suite of in-house tools used at Stu for content production and documentation

- Video editor: browser-based timeline and cut UI with an AI agent performing transcript-driven edits
- Instagram workflow automater: agent-driven post creation and editing pipeline
- Docs canvas: infinite canvas for embedding live HTML documents and web pages

LM Stick · PowerShell · Ollama · Open Source

- A local LLM you carry on a USB stick: plug into any Windows PC and run with zero installation or dependencies, packaged as a standalone executable that handles environment setup, model loading, and shutdown

In Progress · Design Stage

- Oner: an opinionated and personal agent scaffold
- Dash SDK: direct secure connection between devices to share compute and storage

Journalism & Social Research 2022 – present

- **Highlighter**: community platform for student founders and young builders, growing with an audience of 200+ Instagram and 90+ LinkedIn followers
- Three original studies run end to end: survey design, live data collection (50+ responses each), SQL analysis, and published findings on Medium
- Continuing to research and write on technology, culture, and social behaviour from secondary and tertiary sources, in parallel with the engineering work

Integration Intern · Systems Limited Jun 2025 – Jul 2025

- Worked in an integration middleware role on IBM MQ, setting up, configuring, and validating the message queue infrastructure for enterprise integration pipelines
- Gained hands-on experience with enterprise middleware, messaging protocols, and production deployment environments

EDUCATION

BS Computer Science · FAST NUCES Karachi 2022 – 2026

- CGPA: 3.07 · Final Year Project: an AI-powered grocery assistant with integrated cart; received industry-level praise from external 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

CERTIFICATIONS

Psychological First Aid · Johns Hopkins University · Coursera Mar 2023

Data Science Ethics · University of Michigan · Coursera Feb 2023