

Hamza Habib J

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Automation-focused developer building production-grade AI workflows on n8n, Google Gemini and PostgreSQL — with a track record of shipping deterministic, well-tested pipelines that fail gracefully. Comfortable across web, Android and voice interfaces, and eager to bring the same engineering discipline to real business problems.

EXPERIENCE

E-commerce Store Manager — Desire Creations Oct 2024 – Dec 2024 · Bangalore

- Built a complex Shopify e-commerce site for a jewelry business, integrating a secure payment gateway and a responsive storefront.

Web Designer — FinPro Management Consultants Sep 2024 – Oct 2024 · Bengaluru

- Developed a modern, responsive portfolio website on Wix to showcase brand identity to a target audience.
- Designed an engaging site using Wix and custom CSS that increased client inquiries by 35% within the first month of launch.

Salesperson — Industrial Pumps & Instruments Co. May 2024 – Jul 2024 · Coimbatore

- Reduced transaction time by 15% by optimizing the payment-processing checkout flow.
- Built a WhatsApp enquiry bot that took customer enquiries and sent quotations automatically, cutting response time and cost.

AUTOMATION PROJECTS

CRM Lead Automation — n8n · Gemini · PostgreSQL [↗ GitHub](#) 2026

- Designed an AI lead-qualification pipeline ingesting from 6 channels (web form, Meta & Google Ads, chat, custom) — auth, rate-limit, dedupe and score to A–D grade in ~2.5s.
- Kept scoring deterministic and auditable: the LLM extracts facts against a fenced JSON schema; JavaScript computes an 8-criterion weighted score, so a lead cannot grade itself.
- Engineered graceful degradation — Gemini timeouts fall back to rule-based extraction; Airtable outages queue for a retry sweeper; Meta webhook replays are idempotent.
- 10 Postgres tables with append-only audit trigger and 7 analytics views; 210 unit tests via `node:test`, zero runtime dependencies.

n8n · Google Gemini · PostgreSQL · Node.js · Airtable · Slack · Docker

AI Customer Support Automation [↗ GitHub](#) 2026

- Shipped a headless support API as 6 n8n workflows over Postgres: answers messages, remembers context, decides when a human is needed, and never returns 5xx on model outages.
- Built a 4-tier rolling-summary memory with an atomic token budgeter — prompt size holds at 900±300 tokens over 60-turn conversations.
- Enforced a 16-rule escalation policy in deterministic code; the model has no authority to call tools, escalate, or touch the database.
- 103 unit tests, 121 SQL schema assertions, 76 live end-to-end assertions with a scriptable Gemini mock covering rate-limit, safety, truncation and injection paths.

n8n · Google Gemini · PostgreSQL · HMAC signing · Docker

Voice AI Booking Agent — Real Estate

[↗ GitHub](#)

2026

- Built an inbound voice agent (Vapi + n8n + Supabase) that answers the phone, describes properties, checks a live calendar and books viewings into Postgres.
- Made bookings atomic via a single `book_slot()` Postgres RPC — a curl race of five simultaneous requests resolves to exactly one winner.
- Responded to Vapi before side effects (logging, email, calendar) to avoid dead air on live calls; every tool call is logged with arguments, outcome and latency.
- Scripted a recovery sentence for every failure path (slot taken, unknown property, bad auth) so the agent never returns 5xx mid-call.

Vapi · n8n · Supabase Postgres · Google Calendar · ngrok

WhatsApp Enquiry Bot

— Industrial Pumps & Instruments Co.

Jun – Jul 2024

- Automated customer enquiries and quotation generation on WhatsApp, cutting response time and operational cost.

WhatsApp Business API · Chatbot Automation

OTHER PROJECTS

Kharcha — Expense Tracker

[↗ GitHub](#)

2026

- Native Android expense tracker with Supabase backend, SMS auto-parsing of bank transactions, daily-spend charts and carry-forward balances.

Kotlin · Jetpack Compose · Supabase · Material Design 3

Reels Blocker

[↗ GitHub](#)

2026

- Android digital-wellbeing app blocking Instagram Reels via an accessibility service and full-screen system overlay.

Kotlin · Android Accessibility Service · System Overlay

Sansad Quest

[↗ GitHub](#)

Vercel

- Interactive web game teaching the Indian Constitution — players explore Lok Sabha, Rajya Sabha, President and PM roles through gamified learning.

HTML · CSS · JavaScript

Serenity Spa Chatbot

[↗ GitHub](#)

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LinkMeUp

[↗ GitHub](#)

- AI-powered spa appointment booking chatbot as a single-file demo; and a WhatsApp chat-opener bot letting users start conversations without saving contacts.

EDUCATION

Bachelor in Computer Applications, Cybersecurity specialization

2027

Jain University · Bengaluru, Karnataka

CERTIFICATIONS

Agentic AI: A Framework for Planning & Execution — Aug 2025

Software Design Modeling — Jain Group of Institutes

Java Programming: Multithreading & String Handling

Prompt Engineering for Generative AI — Aug 2025

Software Engineering: Requirements Modelling — Jain Group

OOPS Features in Java — Jain Group of Institutes

SKILLS

AI & Automation — n8n workflows, Google Gemini, Vapi, Agentic AI (Claude Code, Antigravity), Prompt Engineering

Android — Kotlin, Jetpack Compose, Material Design 3, Accessibility Services

Security — Kali Linux, HMAC signing, prompt-injection defence

Backend — Node.js, PostgreSQL, Supabase, REST APIs, Docker

Web — HTML, CSS, JavaScript, Shopify, Wix, WhatsApp Business API

Other — Problem solving, testing (`node: test`), technical writing