

Daran Menezes

AI Automation Engineer | Self-Hosted AI Systems | 5+ yrs MarTech Ops Depth

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Mangalore, India (IST, UTC+5:30) | Open to Remote

PROFESSIONAL SUMMARY

AI automation engineer who designs and ships production agentic systems end-to-end – from architecture to deployment. Architected a cost-aware three-tier LLM matching cascade with Human-In-The-Loop gates, 116 tests, and cross-subnet orchestration for a live pharmacy invoice pipeline; a multi-modal Telegram fitness agent with five cron-driven n8n workflows and Supabase storage; a two-stage CCTV detection pipeline (YOLOv8 on-device + Gemini Vision on confirmed events only) to minimise inference cost; and a Playwright browser automation that replaced multi-step Okta SAML SSO workflows with a self-service n8n web form. Strong depth in n8n orchestration, Docker, RAG pipelines, and multi-model LLM API integration – retry logic, auth flows, structured logging, and observable failure paths built in from day one. Five years automating lifecycle marketing at scale for Fortune 500 clients at Epsilon, including leading an internal RAG chatbot initiative. Output-based, async-native; ships systems that run in production, not just demos.

CORE COMPETENCIES

Agentic LLM Pipelines

n8n Workflow Orchestration

RAG Pipeline Architecture

LLM API Integration (Gemini / OpenAI)

Playwright / Browser Automation

Computer Vision (YOLOv8 + Vision LLMs)

Docker & Self-Hosted Infrastructure

HITL System Design

WORK EXPERIENCE

Epsilon01/2023 – Present

Campaign Business Analyst

- Led internal AI RAG chatbot initiative (n8n + OpenAI Embeddings + GPT-4o mini): ingested technical SOPs and campaign documentation into a retrieval system, reducing manual search time and enabling self-serve answers across the ops team.
- Designed automated segmentation, content assembly, and nurture logic across email, push, and SMS; eliminated manual intervention at scale and reduced campaign technical debt across global lifecycle programs.
- Led end-to-end execution of multichannel campaigns for Fortune 500 clients (Marriott, AbbVie, McKinsey, National Geographic) – A/B testing, audience segmentation, and performance optimization.
- Partnered with Product, Client Services, and Solutions Architecture to translate client objectives into executable automation logic; mentored junior analysts and served as primary escalation contact.
- Oversaw campaign workflows across EPCM and Braze, maintaining QA standards and SLA compliance across time zones.

Epsilon08/2021 – 12/2022

Campaign Analyst

- Executed high-volume campaign builds and deployments across email and push; troubleshooted platform issues for rapid resolution.
- Managed HTML/CSS segmentation and personalization logic within Braze and EPCM for retail, pharma, electronics, and banking clients.
- Coordinated intake and project management via Jira and ServiceNow; supported data-driven reporting and campaign analysis.

TECHNICAL PROJECTS

SoftLife Invoice Automation Production | Daily Use

Python 3.11 | n8n | Google Gemini | rapidfuzz | pywinauto | SQLite | Pydantic v2 | Tailscale | SSH | 116 tests

Agentic invoice pipeline replacing 100% manual daily processing for a local pharmacy business (5–15 files, 15–20 line items each). Designed a **cost-aware three-tier matching cascade**: SQLite correction cache (microsecond lookups) to rapidfuzz token-sort against ~21,000 master items to Google Gemini for ambiguous cases only. Built a **Human-In-The-Loop gate** in n8n: operator confirms uncertain matches before any import CSV is generated. A second n8n workflow handles photo-based invoices via Gemini Vision OCR through the same review pipeline. Architected pywinauto automation against a legacy PowerBuilder DataWindow (no API, no COM support). 116 tests passing; cross-subnet deployment via Tailscale + SSH.

Epsilon PCM Proof Automation Production | Internal Tool

Node.js | Express | Playwright | n8n | Google Gemini 2.5 Flash (Vision) | Docker Compose | Cloudflare Tunnel

End-to-end internal automation replacing manual proof email triggering in Epsilon PeopleCloud Messaging – previously requiring a multi-step **Okta SAML SSO login** and one-at-a-time key entry – with a self-service n8n web form; task time cut from several minutes to ~10 seconds. Solved the SSO constraint architecturally: all PCM REST API calls execute from within Playwright's live authenticated browser context (1-hour session TTL with automatic re-login). Gemini Vision OCR extracts customer keys from uploaded screenshots; deployed as two Docker containers behind Cloudflare Tunnel with a daily append-only JSONL audit log.

GodFather - Self-Hosted AI Fitness Coach Production | \$0/month

n8n | Supabase (PostgreSQL) | Telegram Bot API | Google Gemini 2.0 Flash (Vision) | Docker Compose | Cloudflare Tunnel

Multi-modal AI agent operating entirely through Telegram on a home server. Four food-logging input modes: text, meal photo (Gemini Vision macros estimation), barcode scan (Open Food Facts API), and nutrition label photo – all routed through n8n. Five scheduled cron workflows (morning motivation, workout reminder, two meal reminders, weekly progress summary). Supabase stores food logs, weight history, and structured profiles with daily totals and trends; personalises nutrition targets using Mifflin–St Jeor and understands Indian cuisine. github.com/Danez-AI/personal-trainer-agent

CCTV AI Insights On-Device + LLM

Python | YOLOv8n (Ultralytics) | OpenCV | Google Gemini Vision | n8n | Docker Compose | Cloudflare Tunnel

Two-stage AI pipeline for a V380 Pro RTSP camera: YOLOv8n runs continuous on-device frame inference (person/cat/dog) at near-zero cost; Gemini Vision is called **only on confirmed detections** to generate natural-language scene descriptions – preventing inference-cost explosion. Debounce logic (one alert per class per 30s), Base64 snapshot capture, and n8n-orchestrated Telegram delivery with API-key auth. Containerised as a hardened Docker service (non-root, all capabilities dropped, read-only root filesystem).

Automated GST Filing Engine Automation

Node.js | n8n | Playwright | Google Gemini Vision

A Windows Service that listens for n8n webhooks and triggers headless Playwright automation for 100% touchless Indian GST filing. Integrated Gemini Vision to programmatically solve audio and visual CAPTCHAs; built retry logic with auto-page reload and automated HTML email reporting for successful filings and exceptions.

EDUCATION

Bachelor of Science	St. Aloysius College, Mangalore	2021
Higher Secondary (10+2)	Padua College, Mangalore	2018

AWARDS & RECOGNITION

Q2 Magnitude Award – Epsilon	Sep 2024
Q1 Dashing Debut Award – Epsilon	May 2024
CMS Excellence Club – Quality Champion (Q4) – Epsilon	Dec 2022
CMS Excellence Club – Quality Master – Epsilon	Apr 2022

SKILLS

AI / LLM: Google Gemini (Vision + reasoning), OpenAI Embeddings, RAG architecture, agentic workflows, tool use / function calling, Claude Code, YOLOv8 object detection, vision-language pipelines

Automation / Orchestration: n8n (self-hosted, Docker), webhook architectures, cron-driven agents, Playwright, Human-In-The-Loop (HITL) design

Languages: HTML, CSS, SQL, FreeMarker, Shopify Liquid | Python, JavaScript/Node.js (*working knowledge, AI-assisted development*)

Data / Storage: PostgreSQL + pgvector, Supabase, SQLite, Pydantic v2, fuzzy matching (rapidfuzz)

Infrastructure: Docker Compose, Cloudflare Tunnel, Tailscale VPN, SSH (Ed25519), Ubuntu 24.04 LTS

UI / Browser Automation: Playwright, pywinauto (PowerBuilder / legacy Windows UIs), OpenCV, pyautogui

MarTech: Braze, EPCM, Shopify, Jira, ServiceNow, Adobe Suite, Canva