

Deepak Ramesh

AI ENGINEER · LLM PIPELINES & AUTOMATION

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SUMMARY

Builds and runs production AI agents and automation end to end. At Firestorm Internet, designed and operates a multi-agent content pipeline (separate Claude agents for generation and rendering) on an async Celery + Redis queue that scaled site production from 5 to 32 sites in 4 weeks and drove ₹1L+ in affiliate commission in month one. Owns Outbuiltit (live multi-tenant WhatsApp SaaS with a Gemini bot) and CrowdTracker (400+ daily organic users), both built from scratch. Treats LLM output as untrusted by default — schema validation, retries, human gates — and ships only code he has read and tested.

EXPERIENCE

Software Engineer II · Firestorm Internet

Jul 2025 – Present · Chennai

- Built and run an end-to-end AI automation pipeline that scaled WordPress site production from 5 to 32 sites in 4 weeks — generating ₹1L+ in affiliate commissions within the first month.
- Designed a multi-agent content architecture after single-agent failures: separated content creation (Claude) from HTML/template generation (Python + Claude); quality improved markedly once each agent had one responsibility.
- Built an async job queue (Celery + Redis) — durable workers with retry policies, exponential backoff, and dead-letter queues; structured-output validation and retries on malformed LLM responses before publishing.
- Built an internal contact-management tool (React + FastAPI) aggregating enquiries from 40+ sites via cron with a Gmail-integrated triage interface.
- Own containerization and CI/CD: Dockerized FastAPI + Celery + Next.js, automated via Google Cloud Build, deployed on GCP.

Associate RPA Developer · UiPath

Feb 2023 – Nov 2024 · Chennai

- Trained and deployed an ML email-classification system (UiPath Communications Mining) routing 10K+ emails/month across 200+ client sources at 85–90% accuracy, with an AI scientist.
- Integrated classification outputs with SAP and ServiceNow; redesigned exception handling and routing to improve workflow throughput by 70%.
- Implemented UiPath Computer Vision for remote-desktop automation — extraction and form-filling across legacy enterprise interfaces.

TECHNICAL SKILLS

LLM & AI: Claude · OpenAI · Gemini · multi-agent pipelines · structured-output validation · agent reliability · Claude Code

Automation & Async: end-to-end pipelines · Celery · Redis · retry/backoff · dead-letter queues · UiPath Studio · Communications Mining

Backend & Languages: Python · TypeScript · JavaScript · Bash · Java · FastAPI · REST · WP-CLI · Prisma

Data: MySQL · TiDB Cloud · MongoDB · PostgreSQL

Cloud / DevOps / Frontend: GCP · Vercel · Docker · Google Cloud Build (CI/CD) · Git · React · Next.js (App Router)

Integrations / Testing: Twilio · Razorpay · OpenRouter · pytest · Vitest

PROJECTS

Outbuiltit — Next.js, TiDB, Twilio, Razorpay, Prisma · [outbuiltit.com](#)

Multi-tenant WhatsApp booking SaaS — salons/spas accept bookings, enquiries, and payments over WhatsApp. Tenant isolation on TiDB, a pure-function FSM bot (8 states) with a Gemini info-bot, Razorpay payment links with HMAC webhook verification, 79 Vitest tests. Launched commercially.

CrowdTracker — Next.js, MySQL, GCP · [crowd-tracker.com](#)

Travel-planning platform recommending when to visit attractions from crowd-density signals. Sole developer; migrated React + PHP → Next.js (SSR), growing daily organic users 60 → 400+ with zero paid acquisition.

EDUCATION

B.E. Computer Science & Engineering · Coimbatore Institute of Technology · CGPA 8.5/10

Jun 2019 – May 2023