

Nazmul Hasan Rupom

AI Automation Engineer | Agentic AI, RAG and LLM Systems

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SUMMARY

AI Automation Engineer who builds production LLM systems: multi-stage pipelines, RAG agents and multi-agent workflows in n8n and Python. Shipped a single n8n run that generated **4,000+ pages from a 100k+ record database**. Runs production automations daily at 180 Marketing and has delivered **15+ client projects** on Upwork (Top Rated, 100% Job Success).

TECHNICAL SKILLS

AI and LLM	Agentic AI, multi-agent pipelines, RAG, vector embeddings, multi-stage prompt chains, LLM quality gates, cost-based model selection, LLM fine-tuning
LLM APIs	Anthropic Claude API, OpenAI API, DeepSeek API
Automation	n8n (webhooks, Code nodes, HTTP Request nodes), Make, Crawl4AI, Firecrawl, Apify
Languages	Python, JavaScript, SQL, C, Rust (in progress)
Data	PostgreSQL, Supabase (cloud and self-hosted), pgvector, Airtable, Google Sheets
Integrations	REST APIs, Gmail, WordPress REST, YouTube Data API, Zoho CRM, GoHighLevel
Infrastructure	Linux (Arch), Docker, Coolify on a self-hosted server, Cloudflare Tunnel, SSH, Vast.ai, RunPod, Git and GitHub

EXPERIENCE

AI Automation Engineer • 180 Marketing Jul 2025 - Present
US e-commerce marketing agency • Remote

- Architected the agency's production content pipeline in n8n with 4 stages: research, generation, optimization and WordPress publishing. It saves **about 2 hours of manual work per article**.
- Converted most of the team's written SOPs, including e-commerce content and CRM tasks, into automated, repeatable AI workflows.
- Built RAG pipelines for Reddit discovery, posting and engagement, with rate-limit-aware scheduling to avoid account flags.
- Called the Claude API directly through HTTP Request nodes to go past native n8n node limits.

Freelance AI Automation Engineer • Upwork Jan 2025 - Present
Top Rated • 100% Job Success • 15+ projects delivered

- Generated **4,000+ web pages in one n8n run** from a 100k+ record UK business database, with automated WordPress publishing, bulk upload and a glossary-page generator (Urban Water). Client: *"nailed our project, on time, on budget."*
- Deployed production RAG agents that answer only from client-approved data, plus multi-agent content pipelines for e-commerce and marketing clients.
- Built and maintain n8n systems for a long-term UK client (Rida Reports, multiple contracts since 2025): insurance process automation, Zoho CRM quote follow-ups, news workflows and webhook-based unsubscribe handling.
- Shipped Python and n8n systems for chatbots, news-to-content, LinkedIn and Reddit tools, and YouTube Data API automation.

Founder • Fylint fylint.com
Influencer marketing agency for AI, tech and travel creators

- Built a 4-stage LLM pipeline, now in production, that turns YouTube transcripts and comments into personalized creator emails with automated follow-ups.
- Added a quality gate with an honesty ruleset, plus timestamped deep links and provenance tags so every claim can be checked against the source video.

PROJECTS

ProofHunt • [AI Lead Finder](#)

2026

Python, Docker, Supabase (self-hosted), Crawl4AI, DeepSeek API, Gmail • github.com/nazmulhasanrupom/proofhunt

- End-to-end lead engine: CV in, skill extraction, remote-business discovery, need scoring, pitch report, then a Gmail email and follow-ups.
- Person-level filters: job title, seniority, country, team size, web keywords, max contacts per company.
- Removed paid scraping-API limits by moving to self-hosted Crawl4AI on Coolify.

Planning-Lead System Rebuild • [Urban Water](#)

2026, in progress

n8n, Python, PostgreSQL

- Rebuilding from scratch a system that finds live UK planning applications needing flood-risk or drainage reports, and fixing its failed contact extraction. Phase one covers 10 councils.
- PostgreSQL data layer: normalized council data, idempotent inserts with ON CONFLICT, and IDs batched in groups of 20 for API calls.

Brand Compliance Screening Agent

2026

Multi-agent LLM pipeline

- Merges three inputs (scraped-site analysis, website-snapshot image descriptions, customer reviews) into one strict halal-compliance label: NO PROBLEM, HAS DOUBT, HARAM or CHECK MANUALLY.

High-Volume Personalized Email Pipeline

2026

LLM pipeline for a business client

- Writes personalized emails and follow-ups from transcripts and comments at high volume. The model was chosen by cost per reliable output to get the most emails per dollar.

n8n-diff • [Open-source CLI](#)

2026, in progress

Rust

- Shows n8n workflow JSON changes as plain-language diffs, and lints for hard-coded API keys, unused nodes and missing error handling.

Earlier and side projects

- **RAG and CRM (2025):** URL-to-Embedding Knowledge Pipeline (n8n, Supabase) and an AI CRM and Messaging Orchestrator for email processing and lead qualification (n8n, Python).
- **LLM fine-tuning (2025):** cloud GPU setups on Vast.ai and RunPod for fine-tuning open-source LLMs.
- **Rust, in progress:** Devand (open-source VS Code extension) and Kalimah (Discord bot for Arabic vocabulary).

EDUCATION AND LANGUAGES

BSc in Computer Science and Engineering • [Daffodil International University](#)

Expected 2029

Dhaka, Bangladesh

Languages: Bangla (native) • English (full professional) • Hindi (professional working)