FULL-STACK AI ENGINEER

Candidate Reference Number: 202608082041

PROFILE

AI Automation Engineer and Product Engineer with hands-on experience shipping **automation systems, internal applications, self-hosted infrastructure, LLM workflows, and AI-enabled products end to end**. Owns architecture, prompts, data models, integrations, deployment, and operational reliability. Strong practical depth in **Python, TypeScript, Next.js/React, Supabase/PostgreSQL, n8n, RAG, vector search, agent orchestration, MCP, and event-driven workflows**.

CORE CAPABILITIES

AI / LLM: OpenAI | Claude | Gemini | RAG | vector databases | semantic/hybrid search | embeddings | prompt engineering | structured outputs | streaming | LangChain | LangGraph | LlamaIndex | MCP
Application: Python | TypeScript | Next.js | React | Vite | Tailwind | TanStack Query | Zustand | no-code apps | admin panels | real-time chat
Data / Backend: Supabase | PostgreSQL | Auth | Realtime | Storage | Edge Functions | Vector Store | multi-tenant RLS | SQL | REST/GraphQL | OAuth 2.0 | webhooks | ETL
Automation / DevOps: n8n | Postgres/Redis queues | idempotent/resumable pipelines | retries/backoff | event-driven jobs | Docker | Linux | nginx/Caddy | SSL/TLS | self-hosted VPS | GitHub Actions

SELECTED DELIVERY EVIDENCE

- Sole engineer on a production outreach platform spanning company discovery, website reading, personalized email generation, scheduled sending, reply/bounce handling, mailbox, admin, analytics, and tenant isolation.
- Designed an internal team messenger for up to **100 employees** with direct/group chat, media, voice messages, search, push notifications, dark mode, and mobile support on self-hosted infrastructure.
- Built an outreach automation system that discovered **12,400 companies**, with approximately **1,960 qualifying** for outreach and human approval before sending.
- Built a job-search automation pipeline scanning **20+ job boards daily** and scoring about **2,000 listings**, reportedly cutting LLM scoring cost by **61%**.
- Developed open-source one-command installers for production **n8n and Supabase** servers with certificate automation, firewall rules, resumable uploads to 10 GB, hardening, and backups.

ENGAGEMENT FIT

Strong fit for Full-Stack AI work centered on **automation, agentic workflows, RAG, self-hosted AI infrastructure, workflow orchestration, integrations, and internal productivity tools**. Best where a client needs a builder who can move quickly from problem framing through deployment and hardening.

EXPERIENCE EVIDENCE

Candidate Reference Number: 202608082041

2025-PRESENT | PRODUCT ENGINEERING / AI AUTOMATION

- Builds internal tools and technical materials for an AI education organization, owning application architecture, prompts, data models, integrations, and deployment.
- Authored and delivered a five-block course on full-stack AI applications covering architecture, multi-agent systems, retrieval, real-time delivery, and self-hosted deployment.
- Developed and open-sourced production n8n/Supabase installers with security hardening, automated certificates, large-file handling, and backups.
- Uses Claude Code as a primary development tool alongside additional AI-assisted development environments.

TECHNICAL DEPTH

- **LLM systems:** multi-stage pipelines, agent orchestration, RAG, semantic/hybrid retrieval, embeddings, chunking, JSON-schema outputs, SSE streaming, prompt caching, and cost/latency optimization.
- **Backend / security:** multi-tenant RLS, SECURITY DEFINER RPCs, append-only migrations, OAuth 2.0, webhooks, ETL, encrypted secrets, SSRF hardening, API gateways, and backups.
- **Reliability:** idempotent/resumable pipelines, concurrent-safe queue claiming, retry/backoff, rate limiting, recovery tooling, scheduled jobs, and event-driven processing.
- **Scraping / email:** Playwright, browser fallback chains, SMTP/IMAP, MIME, SPF/DKIM/DMARC, warmup, unsubscribe handling, bounce parsing, suppression lists, and MX verification.
- **Integrations:** custom n8n nodes, CRM APIs, transcription/diarization, voice synthesis, Airtable, Notion, and workflow platforms.

ADDITIONAL BACKGROUND

Earlier work spans freelance video editing, construction quality-control laboratory work, and metal fabrication, adding evidence of practical delivery discipline outside purely software settings.

EDUCATION

Technician's Diploma - Civil Engineering