Ibrahim Jaafar

AI Specialist · Automation, AI agents and internal platforms

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SUMMARY

AI specialist who builds LLM systems, automations and internal platforms that teams use every day (Python, Django, React, LLM APIs, n8n). Main developer of a company-wide platform used daily by 50–60 staff, with 9 tools shipped to production in six weeks. Brings 5+ years of engineering and manufacturing experience, and also delivers AI tools for freelance clients across speech editing, image generation and computer vision.

EXPERIENCE

AI Specialist, Blue House Films Sep 2026 – present, remote

Film and social media company, about 100 staff.

- Built the company's secure internal platform, now used daily by 50–60 staff, as main developer on a 3-person R&D team: 9 tools shipped in the first six weeks, two-factor sign-in and self-monitoring with alerts. Also wrote the plugin guide and coding rules the other developers build by, review their code, supervise interns and run AI workshops for the developers.
- Designed its core rules in 60 architecture decision records, such as one deny-by-default permission check on every request and a server-side broker for 11 AI and web services, so no employee or tool ever sees a key and offboarding someone cuts every tool at once.
- Cut visual-insert research for a video script from hours, sometimes days, to under 15 minutes as main developer of an automated multi-step AI pipeline, checked by separate AI judges and editor ratings.
- Replaced the company's NewsWhip subscription with a news-intelligence engine, built in one week, that tracks 54 outlets in three languages.
- Replaced Slack, WhatsApp and email for internal work with an in-house chat (about 55 daily users), removing paid Slack seats.
- Built a task manager (about 50 daily users) that gives every task an owner, status and deadline, so managers see progress live instead of chasing updates.
- Cut a 30–90 minute manual subtitle-editing task to seconds by co-developing a subtitle cleaner, in daily use across the company's news platforms.
- Built company email inside the platform with phishing warnings (fake colleagues, lookalike domains, risky attachments, misleading links) and a signed stamp proving mail came from the platform.
- Also built HR records (setting a role sets the person's tool access), a ticket system, and a device dashboard that checks staff hardware before software purchases and tracks real tool use.
- Host and secure the platform on an Oracle Cloud VPS with immutable Cloudflare R2 backups (30-day lock) and 1,400+ automated tests. Set up CI/CD on GitHub Actions: pull requests are tested, security-scanned and checked for leaked secrets, and backend changes deploy only after the tests pass.

Freelance Software Developer 2023 – present

- Extended an open-source AI video generator for a client: AI matching between script and footage (CLIP/SigLIP) and a React clip-review editor, about 5,300 new lines.
- Built PromptForge for a social media startup: one prompt generates images from many AI providers at once, with retries, rate limits and encrypted API keys.
- Built a billboard-detection desktop app (YOLO, TensorRT) for a university professor's advertising research, and an interactive flight-incident replay for a journalist.
- Built Word Fix for a content creator: click a misspoken word in a video's transcript, type the right one, and it is re-spoken in their own voice in seconds, replacing hours of re-shooting.

Product Designer & Machinist, Ghandour Solutions 2021 – 2026

Solar battery systems, industrial machines and custom CNC-made parts.

- Designed products in SolidWorks and ran CNC machining and 3D printing, including maintenance and repair of the machines.
- Built CurveMill, a CNC file optimiser that fixed a workflow bottleneck, cutting one pattern from 7,014 lines to 274.
- Selected and installed SolidWorks PDM after comparing ERP, PDM and PLM systems, and built a Notion hub covering design, manufacturing, sales, finance and inventory.
- Built a camera system that detects trucks and opens a client's gate automatically (YOLOv5, Arduino).

SELECTED PROJECTS

Agency report automation · live demo: ibrahim-jaafar.github.io/agency-demo

n8n workflows save leads to GoHighLevel, send conversions to Meta's Conversions API, run data checks in code and alert Slack when something looks wrong. A client dashboard covers any day, week, month or year. The AI summary writes placeholders that code fills in, so it can never invent a figure. 204 automated tests.

Word Fix: AI word correction for video

F5-TTS speech editing re-speaks only the wrong word from the audio around it, so the voice, room sound and timing match and the video stays in sync. A forced aligner places the cut and a speech model checks every take. n8n, Whisper, ffmpeg; 48 automated tests.

Hermes multi-agent system

Four Telegram bots coordinated by an orchestrator, used almost every day. The car bot runs end to end from a licence plate: scraping, VIN recall checks, then an Android emulator to pull the car's history.

Furniture CAD-to-render pipeline

Product images without a photo shoot: Claude builds each scene in Blender through MCP at real dimensions, and Gemini renders it photoreal. 32 reusable scene scripts.

Also built: Mosaic, an order-to-production system for my furniture business (Next.js, Supabase, in development) · a Polymarket trader analyser and strategy simulator · ProMapper, a visual project planner still used by a business advisor · SecuSearch, a private multi-engine search app · a 3D vehicle viewer for an EV app (Three.js) · requirements, architecture and codebase setup for Optiforge, a CAD/CAE optimisation platform · a multimodal PDF RAG study · an Arabic ID number reader prototype · home automation with Arduino and Raspberry Pi.

Check all projects at ibrahim-jaafar.github.io/#projects

SKILLS

- **AI / LLM engineering:** Claude Code, MCP, Hermes Agent, LLM APIs (Anthropic, OpenAI GPT, Gemini, OpenRouter, Replicate), prompt engineering, structured outputs, RAG, embeddings, LangChain, Hugging Face Transformers, Microsoft Foundry, generative AI evaluation
- **Automation:** n8n, REST APIs, webhooks, web scraping, GoHighLevel API, Meta Conversions API, Slack API, Google Docs API and service accounts
- **Development:** Python, TypeScript, React, Next.js, Django, FastAPI, PostgreSQL, Supabase, Tauri
- **Infrastructure:** Oracle Cloud, Cloudflare R2, Docker, GitHub Actions (CI/CD), role-based access control
- **Computer vision and speech:** YOLO, OpenCV, TensorRT, CLIP / SigLIP, Whisper, F5-TTS
- **Engineering:** SolidWorks (certified), Blender, CNC machining, Arduino

EDUCATION

Bachelor's in Mechanical Engineering, coursework almost complete (one module and the final project remaining)

CERTIFICATIONS

Google AI Professional Certificate · Anthropic: Claude Code 101, Introduction to Agent Skills, Introduction to Subagents, Introduction to Model Context Protocol · Certified SOLIDWORKS Design Professional · Certified SOLIDWORKS Additive Manufacturing Associate · PMI: Fundamentals of Predictive Project Management

LANGUAGES

Arabic (native) · English (professional)