

Sanaur Rahman

AI Engineer & Automation Architect

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AI engineer with 25+ years across networking, cloud, and AI. Builds systems that actually ship. Multi-agent platforms, offline voice AI on Raspberry Pi, RAG pipelines, automation workflows. Not a notebook engineer. Looking for a role where I build AI systems that solve real problems.

EXPERIENCE

Personal Development Coach & Digital Learning Lead - Solihull College

Jul 2024 - Present

- Built a 19-agent AI system at the college. Replaced fragmented tools with one platform that has role-based access, memory across sessions, and MCP integration. Everything in git. Zero cloud cost.
- Set up Ollama with Gemma 2B and ChromaDB for offline document search. Staff can query college documents without any data leaving the premises. No API calls. No ongoing cost.
- Built a voice AI on Raspberry Pi 5 that runs completely offline. Wake word detection, speech to text, LLM with RAG, text to speech. Added guardrails and parental controls for child safety. 4.19% word error rate. 3.3GB RAM total. Zero cloud.
- Built 30 n8n workflow templates and shipped them as a product. Covers email autoresponders, AI chatbots for Telegram/Slack/Discord, CRM pipelines, PDF extraction, invoice parsing. Packaged with setup guides and webhook docs.
- Delivered AI literacy training across the college. Prompt engineering, n8n, running local LLMs with Ollama, building productivity systems. Staff across multiple departments now using automation in their day-to-day.

ICT Lecturer (BTEC, T-Level, Apprenticeships) - Solihull College

Sep 2021 - Present

- Redesigned the ICT curriculum. Added AI tools (Ollama, n8n, Python), cloud platforms (Azure, AWS), and DevOps. Moved from theory to hands-on. Students now use the same tools the industry expects.

Performance Controller - Abellio London (TfL)

Oct 2014 - Jul 2021

- Built reporting systems for the London bus network. Created escalation protocols and operational analysis using live control room data. Enabled data-driven monitoring across multiple routes.

KEY PROJECTS

AI Agency Platform

[Python](#) | [Ollama](#) | [ChromaDB](#) | [MCP](#) | [RAG](#) | [YAML](#)

19-agent AI platform. 7 council reviewers, 3 autonomous agents. 5-layer memory, role-based access, MCP integration. Everything in git-versioned YAML. Sessions persist across agent switches. 12 architecture decisions documented.

Child-Safe Voice AI Companion

[Raspberry Pi 5](#) | [Ollama](#) | [sherpa-onnx](#) | [Piper TTS](#) | [ChromaDB](#) | [Guardrails](#)

Offline voice AI on Raspberry Pi 5. Wake word, VAD, speech-to-text, LLM with RAG, text-to-speech. 3-layer safety guardrails. Parental controls. 4.19% WER, 0.12 RTF, 3.3GB RAM. Zero cloud.

n8n Workflow Automation Pack (30 Templates)

[n8n](#) | [REST APIs](#) | [Telegram](#) | [Slack](#) | [OpenAI](#)

30 n8n workflow templates shipped as a product. Email auto-responders, AI chatbots for Telegram/Slack/Discord, CRM pipelines, sentiment analysis, PDF extraction, content automation. Includes credential guides and webhook docs.

UI/UX Design Intelligence System

[Python](#) | [Sentence-Transformers](#) | [CSV Databases](#) | [Pandas](#)

Searchable design reference covering 13 frontend tech stacks. 600+ colour palettes, 57 font pairings, 99 UX guidelines. Uses sentence-transformers for semantic search.

TikTok Content Marketing Engine

[Puppeteer](#) | [HTML/CSS](#) | [Node.js](#) | [A/B Testing](#)

Headless browser pipeline converting HTML slides to 1080x1440 PNG carousels. Design tokens frozen in code. A/B format testing. 4 carousels shipped. One hit 14 likes and 6 saves in under 24 hours. vs/tribal format drove 2x engagement.

Overwatch 2 Hero Picker — Android App

[HTML/CSS/JS](#) | [Capacitor](#) | [Android APK](#) | [Web Scraping](#)

Android app for Overwatch hero picks. Map-aware recommendations. HTML/CSS/JS wrapped in Capacitor. Data scraped from Blizzard and Overwatch Meta. 5v5 comp analysis and "perfect 6th pick" engine.

SKILLS

LLMs & GenAI

Ollama, Gemma 2B, RAG Pipelines, ChromaDB, Multi-Agent Systems, Prompt Engineering, LLM Configuration, Content Guardrails, Sentence-Transformers

Voice AI & Audio

Whisper.cpp, Parakeet-TDT (sherpa-onnx), Piper TTS, openWakeWord, Silero VAD, ALSA Audio, Edge STT/TTS

Automation & DevOps

n8n (30+ workflows), Puppeteer, Docker, systemd, Git/GitHub, CI/CD, Linux Administration, PowerShell

Programming Languages

Python, JavaScript, HTML/CSS, SQL, Node.js, Flask, Shell Scripting, JSON/YAML, Markdown

Edge & Hardware

Raspberry Pi (5, 3B, Zero), GPIO, ONNX Runtime, PyTorch (CPU), Offline-First Architecture, Privacy-by-Design

Architecture & Infrastructure

MCP (Model Context Protocol), REST APIs, WebSocket, 5-Layer Knowledge Management, YAML Config Systems, ADR Documentation, Token-Optimised State

EDUCATION

Birmingham Newman University - Certificate of Education (CertEd) (2023-2024)

Solihull College & University Centre - HND Computer & Information Systems (2021-2023)

Level 3 Award in Education & Training (AET) (2022)

CERTIFICATIONS

Generative AI for Educators (Google / FutureLearn) - A Guide to UK Data Protection: Education (Google) - Present with Purpose - Working in a Digital World (OpenLearn) - CPD in Partnership with IBM - CAVA / TAQA Assessor Qualification (in progress)