# MUHAMMAD RAYYAN

AI and Automation Engineer · Lahore, Pakistan

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Engineer with five years of experience building automation and full-stack systems. Joined a software house as its first AI hire and built the AI function from nothing, hiring and training a team of seven and delivering both client projects and the internal tooling the company ran on. Works across the whole build: WhatsApp and LLM automation with n8n and the Claude and OpenAI APIs, React and Node applications, and systems that replace manual process outright.

## EXPERIENCE

**Manager of Artificial Intelligence** Mar 2026 – Sept 2026

*Videosgeeks · Lahore, Pakistan*

- Joined as the company's first AI engineer and established the AI department from nothing, defining what the function delivered and how it worked.
- Ran the full hiring loop for seven interns, interviewing and selecting them, then training them from onboarding through to independent delivery.
- Built and delivered client projects alongside the internal work, taking them from requirement through to handover.
- Built an employee management system covering check-in, check-out and break tracking for approximately 60 staff, replacing a manual copy-and-paste process into Google Sheets.
- Delivered an internal CRM and a set of Google Sheets automations that removed recurring manual data entry across the company.
- Built a camera surveillance system as part of the department's internal tooling.

**AI and Business Development Associate Engineer** Feb 2025 – Feb 2026

*Xeven Solutions · Lahore, Pakistan*

- Tested Covis, an AI operations and delivery platform, working through release cycles to identify defects ahead of launch.
- Maintained the Covis mobile application in React Native and Expo, resolving UI defects, layout issues and copy errors.
- Generated and submitted client proposals on Upwork as part of the business development function.

**Business Development Officer and Automation Engineer** Mar 2024 – Jan 2025

*Bilal Global Manufacturing Companies (BGMC) · Lahore, Pakistan*

- Built a WhatsApp lead management system from scratch using the Meta Cloud API, n8n, Claude AI and Google Sheets. The chatbot qualifies inbound leads, detects service domain, assigns them by round-robin logic and notifies associates by automated email with a full lead summary.
- Developed a cold email automation workflow in n8n that personalises outreach and places follow-ups inside the original email thread, removing manual re-drafting and improving response rates.
- Prepared and presented business proposals for Lean Six Sigma and HSE consulting services, closing three clients.
- Managed end-to-end client communication, requirement gathering and pipeline follow-ups.

**Web Developer and E-commerce Associate** Sept 2021 – Feb 2024

*Ecom Hunt · Lahore, Pakistan*

- Designed and developed websites and custom UI components for wholesale Amazon businesses over a two and a half year engagement.
- Built and maintained client sites with a focus on performance optimisation, responsive design and cross-browser compatibility.
- Assisted with UK LTD company registrations and Amazon seller account setup and management.

**Game Development Intern** Nov 2023 – Jan 2024

*Ghost Hunter · Lahore, Pakistan*

- Developed core gameplay mechanics in Unreal Engine 5, implementing character movement, enemy AI behaviour and game state logic.
- Created 3D assets in Blender and SketchUp for use in-engine.

**Teaching Assistant, Linear Algebra and Probability** Mar 2022 – Jun 2022

*University of Management and Technology · Lahore, Pakistan*

- Supported students with matrix operations, vector spaces and probability theory, designing supplementary tutorials and assignments.

## TECHNICAL SKILLS

**AI and Automation:** n8n, Claude API, OpenAI API, Meta WhatsApp Business API (Cloud), prompt engineering, workflow automation

**Languages:** JavaScript (ES6+), Python, C++, C#, HTML and CSS, Solidity

**Frameworks and Libraries:** React.js, Next.js, Node.js, Express, React Native, Expo, WordPress

**Databases:** MongoDB, SQL, Google Sheets as a data layer

**Tools:** Git, Docker, Linux, Postman, VS Code, Gmail API, Google Apps Script

**Other:** Team leadership and hiring, QA and release testing, client communication, requirement gathering

## SELECTED PROJECTS

**Call Stream** Android · Asterisk · SIP over TLS · Urdu voice AI

- Turned an Android phone and a normal Pakistani SIM into an Urdu AI call agent on the business's existing number: no SIP trunk, PTA paperwork or new number.
- Bridged calls from the SIM over Bluetooth into Asterisk and on to the AI agent; fixed the ISP silently dropping SIP on port 5060 by moving to TLS on 5061.
- Built with Shahwaiz; produced eight industry demo films (Umrah, real estate, healthcare, BPO and more) entirely in code.

**Jennifer** Next.js · Supabase · Gemini · Groq · RAG

- AI business assistant for real estate agencies: updates the CRM from plain-language messages, scores lead intent and briefs the owner daily.
- Answers from the agency's own data using RAG plus live database context; a four-step fallback across Groq, OpenRouter and Gemini keeps it up.
- Supabase row-level security for three roles (Super Admin, Admin, Agent); installs on agents' phones as a PWA.

**Al Munir UPVC** n8n · Retell AI · WhatsApp Cloud API · Claude

- Sales pipeline for a UPVC manufacturer that finds buying intent in Facebook groups and Instagram and sends the first WhatsApp message straight away.
- A voice agent calls each lead, then a priced two-page PDF quote in the company's own branding goes out on WhatsApp.
- Site visits book into Google Calendar; Instagram DMs are answered in Roman Urdu, with handover to a person on request.

**Sebastian** Android · Kotlin · AssemblyAI · Cloudflare Workers

- AI teammate that joins live WhatsApp and phone calls on Android, takes notes and answers out loud when addressed by name.
- Captured WhatsApp call audio through Android audio loopback as two live transcripts, one per side, muted while he speaks.
- Runs web searches, books follow-ups and reads Notion mid-call, then sends the summary to WhatsApp and Notion. AssemblyAI hackathon build.

**Bresco Properties** Next.js · Supabase · Baileys · Gemini

- WhatsApp lead CRM for a Lahore real estate agency, live and in daily use: each agent links their own number, five on one dashboard.
- AI drafts the team post for approval and sends it from every agent's number; imported leads split across online agents.
- One unified inbox with AI replies in Roman Urdu and English, and Urdu follow-up calls running on Call Stream.

**Pharmaceutical Supply Chain Management Platform** Next.js · MongoDB · Arbitrum L2

- Arbitrum L2 smart contracts for tamper-proof supply chain event tracking, with MongoDB holding off-chain media and location data, behind dashboards designed for real-time visibility.

**AI Systems Studio** agency-portfolio-mauve.vercel.app

- An engineering studio site presenting automation, voice agent, scraping and full-stack work, built with Next.js, WebGL and GSAP.

## EDUCATION

**Bachelor of Science in Software Engineering** Aug 2020 – May 2024
*University of Management and Technology, Lahore*

**Intermediate in Pre-Engineering** Aug 2018 – May 2020
*Punjab College, Lahore*