

MUHAMMAD HASNAIN

AI Product Builder | Applied AI & Full-Stack Engineer

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SUMMARY

AI-native builder who ships products, not just code. Uses Claude, ChatGPT, Gemini, and Cursor daily to research markets, prototype fast, and turn ideas into working AI products. Experienced across the AI product stack — LLM-powered automation, AI-driven document processing and summarization, and MCP-based tool integrations — with strong OOP and DSA fundamentals. Comfortable owning a project end-to-end: client discovery, prototyping, full-stack development, deployment, and go-to-market (cold outreach, content, in-person pitching).

TECHNICAL SKILLS

AI & Automation: Claude, ChatGPT, Gemini API, OpenAI API, n8n (workflow automation), AI Agents & Automation Frameworks, Model Context Protocol (MCP) — configuring MCP servers/connectors (e.g. Supabase MCP) in AI-native dev environments (Antigravity, Claude Code), Google Stitch (AI UI design), Vapi (Voice AI)

Document & Data Processing: AI-powered document parsing & summarization (PDF/Word ingestion), dynamic system-prompt generation from source documents, structured JSON extraction from LLM outputs

API & Backend Development: REST API Design, Flask, SQL/NoSQL, Supabase, Database Schema Design, Auth & Business-Logic Integration, third-party API sync (Zoho Recruit, GoHighLevel)

Full-Stack & Mobile: HTML, CSS, React, Python, JavaScript, Dart/Flutter, Clean Code Architecture

Languages & Tools: Python, C/C++, Dart, JavaScript, SQL/NoSQL, Git/GitHub, VS Code, Linux

PROJECTS

Hukum AI (hukum.tech) — WhatsApp & Web Chatbot Platform

React (Vite), Flask, Supabase, DigitalOcean, n8n, Gemini API

- **Live:** hukum.tech
- Built an AI chatbot product for WhatsApp and web that automatically engages inbound leads in real time, cutting response time and preventing lead drop-off to increase sales conversion.
- Built an automated onboarding flow in n8n: when a business registers, it uploads a reference document; the pipeline feeds that document to the Gemini API, summarizes it, and auto-generates the bot's system prompt — letting each customer's bot pick up their tone, offerings, and conversation flow with no manual prompt-writing.
- Drove go-to-market and adoption beyond the codebase: cold-emailed prospects, created Reels and social content, and pitched the product in person to acquire and onboard new customers.
- Built and deployed the full-stack SaaS platform end-to-end (Admin Panel, Customer Portal, Flask backend, Supabase database) on DigitalOcean.

AI HR Screening Automation — Client Work

n8n, OpenAI API, Zoho Recruit, GoHighLevel (GHL), REST APIs, JavaScript

- **Live:** [Case study — muhammadhasnain.me/portfolio/hr-automation](http://muhammadhasnain.me/portfolio/hr-automation)
- Built an end-to-end serverless recruitment pipeline in n8n that replaces manual resume screening: ingests inbound application forms, parses unstructured PDF/Word resume attachments, and extracts key text blocks.
- Sends parsed candidate credentials and the job description to the OpenAI API to score experience, technical skills, and cultural fit, returning a structured JSON score and feedback.
- Built dual-CRM sync (Zoho Recruit + GoHighLevel) to write candidate profiles, attach resumes, and log scoring audits in real time, with dynamic status routing (auto-shortlist, auto-reject) based on score thresholds.
- Implemented error-catch nodes, API retry logic, and rate-limit guards in n8n for reliable, high-volume processing.

AI Video Remix Platform (R&D) — US-Based Product

Python, AI Video/Audio Tools

- Contributed to R&D for an AI product that recreates trending short-form videos from Instagram, TikTok, Facebook, and YouTube directly from a URL.

- Ran fast experiments across multiple tools for video/audio grabbing, content analysis, and script generation to identify the best combination for production.
- Communicated findings and trade-offs directly to the product owner, turning technical research into clear product direction.

Interrorsense AI Interviewer (FYP) — Final Year Project

Python, React, AI, Computer Vision

- Self-initiated and built an AI mock-interview product from idea to working prototype, asking 12-15 dynamic questions with live AI-generated follow-ups.
- Integrated computer vision to track candidate focus and generated an automated feedback score at the end of each session, highlighting strengths and areas to improve.
- Built the candidate-facing interview interface in React, handling live question flow and real-time interaction with the AI system.

AI Voice Agents & Chatbots — Client Work

n8n, Vapi, REST APIs

- Built and shipped AI voice agents using Vapi for automated customer calls across multiple client businesses.
- Built multiple multi-language chatbots for lead qualification and order handling, iterating on prompts and flows based on real conversation data.

AI vs. Player Sequence Game — Side Project

Flutter, Dart

- **Live:** muhammadhasnain.me/portfolio/ai-sequence-game
- Built an offline single-player game with an AI opponent, implementing sequence and decision-making logic in Flutter/Dart out of curiosity for game AI.
- Used MCP-connected AI tooling (Claude Code / Antigravity) during development to accelerate design and implementation.

PROFESSIONAL EXPERIENCE

AI Product Builder & Full-Stack Developer | Code Ventures

Jan 2026 – Present

- Build AI-powered products and automation workflows for clients, using Claude, ChatGPT, and n8n daily to research, prototype, and accelerate delivery.
- Lead client discovery meetings to understand requirements, shape scope, and translate business needs into working product features.
- Design and ship end-to-end AI automation workflows, integrating REST APIs, LLMs, document-processing pipelines, and voice AI (Vapi) into real business processes.
- Configure MCP integrations (e.g. Supabase MCP) within AI-native dev environments (Antigravity, Claude Code) to speed up client project design and backend setup.
- Own full-stack development across backend APIs and client-facing applications, from prototype to deployment.

Freelance Full-Stack Desktop Application Developer | Self-Employed

- **Live:** muhammadhasnain.me/digital-invoicing-solutions
- Developed a custom full-stack desktop invoicing system with FBR (Federal Board of Revenue) compliance, delivered to 10+ clients.

Mobile Developer | Div Dash

Nov 2025 – Jan 2026

- Developed and maintained mobile apps using Flutter/Dart with a focus on Clean Code and UI performance.
- Collaborated via GitHub Issues and Pull Requests to deliver high-quality features.

EDUCATION

Bachelor of Computer Science (BSCS) | FAST NUCES, Karachi — Graduated: June 2026