

Hassan Amin Shah

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

Bachelor of Science in Electrical Engineering

Topi, PK

Aug 2018 – Jul 2022

EXPERIENCE

Smart Forum

Islamabad, PK

Junior Software Engineer

Aug 2024 – Present

- Developed frontend features in React and TypeScript, working across multiple products and collaborating with the backend team on API integration and data flow
- Worked on MediaNest, an AI media platform built into the product, contributing to the frontend and integrating HeyGen for avatar videos, ElevenLabs and Google TTS for voiceovers, and n8n to automate the content pipeline
- Diagnosed and resolved frontend performance issues by applying route-level code splitting, lazy loading, and memoization where re-renders were measurably hurting load times
- Built a library of reusable UI components including multi-step forms, drill-down data tables, live search, and Recharts dashboards adopted across multiple product modules
- Implemented authentication, session management, and role-based access control at both route and component level, enforced consistently across all user types

Blue Banana

Remote

Frontend Developer

Mar 2023 – Aug 2024

- Built client websites and page templates in React, Next.js, and Tailwind CSS, converting Figma designs into responsive, cross-browser-tested pages ready for client handoff

PROJECTS

DRS and LSDS: Device Registration and Lost and Stolen Devices Subsystems

- Rebuilt the frontend of two government compliance systems in React and TypeScript, re-architecting complex verification and registration workflows from the ground up
- Delivered dashboards, drill-down data tables, KPI widgets, and exportable audit reports used daily by compliance teams processing large volumes of device records
- Maintained a shared component library and design system across both subsystems, keeping the codebase consistent and new features straightforward to add without regression

MediaNest

- Developed the frontend in React, building the user interface for content creation workflows including article generation, audio production, and video reel outputs
- Integrated HeyGen for avatar video generation and worked on the voiceover pipeline using ElevenLabs and Google TTS based on language requirements
- Configured n8n automation flows to connect the content pipeline end to end, reducing manual steps across the generation and publishing process
- Wired up publishing integrations to Facebook, Instagram, YouTube, and X so creators could go from content creation to live post without leaving the platform

AI Sales Calling Agent

- Built an outbound sales pipeline where a conference PDF upload triggers n8n to extract event details, read a contact sheet, and have Vapi dial each lead through Twilio with personalised context injected per call
- Configured mid-call tool calls to send follow-up emails and book meetings on the spot, with full call summaries logged automatically to Google Sheets on completion

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML/CSS

Frameworks: React, Next.js, FastAPI

AI / ML: Large Language Models (LLMs), Prompt Engineering, AI Agents, Spec-Driven Development

AI Standards: Skills, MCP, Subagents, Agent Teams

Voice & Video AI: Vapi, ElevenLabs, HeyGen, Google TTS, Twilio

Automation: n8n, Make, Zapier

Web Scraping: Playwright

Databases: PostgreSQL

Developer Tools: Git/GitHub, VS Code, Zed, Postman