

Muhammad Abdullah Nadeem

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AI ENGINEER | AUTOMATIONS ENGINEER

Skills

Languages & Frameworks: Programming Fundamentals, Python, JavaScript, TypeScript, React, Next.js, Node.js, Express, Tailwind CSS
AI & LLMs: Large Language Models (LLMs), LLM APIs (OpenAI, Gemini, Mistral AI, GPT-4), Prompt Design, Embeddings, Vector Search, Retrieval-Augmented Generation (RAG), Mastra, Claude Code, AI-Assisted Development Tools, Sentence-Transformers, RoBERTa NER, TensorFlow.js, Pinecone
Databases & Storage: PostgreSQL, Supabase, Prisma, Upstash Redis, Supabase Storage
Automation & Integrations: API Development, REST APIs, Playwright, n8n, Slack, Resend, Serper, WordPress REST API, Cron Jobs, Web Scraping
Cloud & DevOps: Git, Vercel, Railway, Google Cloud, VPS Deployment
Frontend & UX: Zustand, Framer Motion, next-intl, react-markdown, jsPDF, Web Speech API, Google OAuth

Projects

SMK Campaign Approval Tool (BrandSurge LLC)
Built a full-stack campaign approval workflow for a client (Recruiting-Now.de) using [Next.js](#), [Prisma](#), and [PostgreSQL \(Supabase\)](#), automating social media campaign approvals across Customer Success, Customer, and Agency roles. Implemented role-based authentication with Google OAuth and magic link login, a state-machine workflow engine managing campaigns from creation through review, revision, and go-live, and multi-locale support (English/German) with [next-intl](#). Integrated [Resend](#) for transactional emails with deep-linked magic URLs, Supabase Storage for asset management, and automated deadline monitoring via cron jobs for escalation handling.

Portal Service Agent (BrandSurge LLC)
Built an automated job portal synchronization system for a client (Recruiting-now.de) that scrapes career websites, computes inventory deltas, and publishes job listings across multiple regional job portals. Developed a two-agent pipeline using [Python](#) and [Playwright](#) for browser automation, with one agent handling scraping and matching while the other executes portal actions. Integrated [Slack](#) for delta review and approval workflows, and connected the system to an internal AI operations platform (OpenClaw) deployed on a VPS, enabling the client's CS team to trigger and monitor sync runs through a conversational interface.

AI-Powered Workforce Automation Engine (BrandSurge LLC)
Automated employee attendance tracking by integrating [Slack](#) check-ins with [n8n workflows](#) and storing records in [Supabase](#). Designed and developed an HR dashboard ([Next.js](#)) enabling administrators to manage attendance, employee data, and company-level attendance policies through an intuitive web interface.

Recruvia – AI-Powered Recruitment Platform [Live]
Built a full-stack AI recruitment platform with three [Next.js](#) portals, [Supabase PostgreSQL](#), and a [Python](#) background worker on [Railway](#). Developed an automated ATS engine using [Sentence-Transformers](#) for semantic resume matching, [RoBERTa NER](#) for entity extraction, and fuzzy skill matching, with automatic interview invitations via [Resend](#) for qualifying candidates. Implemented a voice-based AI interview system powered by [Mistral AI](#) with RAG retrieval from [Pinecone](#), adaptive questioning, and real-time transcription via [Web Speech API](#). Added a real-time proctoring layer using [TensorFlow.js](#) (BlazeFace, COCO-SSD) monitoring seven violation types with snapshot-based evidence capture and automated integrity verdicts.

FormVerse – AI-Powered Research Platform [Live]
Built a full-stack AI research platform using [Next.js 15](#), [TypeScript](#), [Tailwind CSS](#), and the [Mastra](#) agent framework that turns conversational user input into structured, source-backed research reports. Implemented a [GPT-4 Turbo](#)-driven conversational interviewer that dynamically generates adaptive forms with conditional field logic, paired with a multi-tool research agent running an explicit agentic loop (Plan → Execute → Reflect → Terminate) across [Serper](#) web search, IP-based geolocation for regional context, and persistent memory via [Upstash Redis](#). Architected the system around an explicit state machine with two specialized Mastra agents — one for form generation and one for research orchestration — wired up with [Zustand](#) for client state, [Framer Motion](#) for animations, and [react-markdown](#) with GFM, KaTeX, and syntax highlighting for rich report rendering. Added session management with chat history, PDF export via [jsPDF](#), safety guardrails against inappropriate prompts, and production-ready error handling throughout.

Work Experience

BrandSurge LLC June 2025 - Present
Lahore, Pakistan

AI-Automation Engineer (Hybrid) Sept 2025 - Present

- Designed and delivered full-stack web applications and automation systems for clients using Next.js, Supabase, and Python
- Built multi-agent browser automation pipelines with Playwright for job portal synchronization and data scraping workflows
- Developed internal tooling including HR dashboards, campaign approval workflows, and SaaS platforms with role-based access control
- Integrated third-party services (Slack, Resend, n8n) to automate approvals, notifications, and operational workflows

AI Intern June 2025 - Aug 2025

- Built an automated SEO page generator using the Gemini API with WordPress REST API integration for dynamic publishing to client sites
- Developed the Next.js frontend and PostgreSQL/Supabase schema for GeoScraper, an in-house lead generation and web scraping platform

Viivaa UG Feb 2026 - May 2026
Remote (Private Contractor)

AI Developer

- Developing an AI-powered job-matching platform that delivers personalized, ranked job feeds to candidates using a React/TypeScript frontend and a Node.js/Express backend on Supabase PostgreSQL
- Built backend services and frontend flows across the candidate and employer onboarding journey, including CV upload, structured interviews, and profile generation
- Implemented LLM-driven features with OpenAI and Gemini for CV parsing, candidate profile enrichment, and automated document generation

Certifications

Foundations of Data Science: K-Means Clustering in Python (University of London) June 2024 - July 2024
Online, Coursera

Education

National University of Computer and Emerging Sciences Bachelor's in Data Science, Islamabad, Pakistan	2022 - 2026
BCP Johar Town Campus A levels, Lahore, Pakistan	2019 - 2021
Beaconhouse School System JTC O levels, Lahore, Punjab	2016 - 2019