

Muhammad Usman Naeem

Senior Full-Stack Engineer · Python · TypeScript · React · FastAPI

Kot Addu, Pakistan (UTC+5) · Remote, any time zone · Available immediately · Contractor or through an employer of record

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SUMMARY

Senior full-stack engineer with six years of writing software, five of them in full-time contract work, most of it as the only developer on the project. I build and run complete systems in Python and TypeScript, from the database and API through the interface, payments and background jobs to the Linux servers underneath. For nearly two years I have been the sole engineer on a music discovery platform in production beta. Top Rated Plus on Upwork with 100% Job Success and 23 contracts from returning clients, and a gold medalist in Software Engineering.

EXPERIENCE

Senior Full-Stack Engineer (contract), Resomix

Dec 2024 to Present

Remote · Sole engineer, engaged through Upwork · resomix.com

- Took the product from a two-week scraping brief, through four months of open-ended research, to a multi-tenant platform in production beta across more than twenty repositories.
- Built the backend in Python with FastAPI, SQLAlchemy, Celery and Redis over MariaDB, MongoDB and Elasticsearch, serving search across nearly two million tracks.
- Built the React and TypeScript web app and admin dashboard in a Turborepo monorepo.
- Designed partner isolation through storage, processing, search, API access and billing, with a partner REST API and catalogue ingestion over managed SFTP with CSV manifests, validation and DDEX reporting.
- Built plans, quotas, metering and Stripe subscription billing alongside the product, and migrated the live system to a new data model without losing data or interrupting service.
- Led the platform's production readiness, including backup and disaster recovery, load and stress testing, access hardening, centralised error logging and third-party sign-in.
- Deploy and operate it all as systemd services behind nginx, with S3-compatible object storage, TLS, firewalling, antivirus scanning on every upload, monitoring and a runbook per service.

Senior Full-Stack Developer · Top Rated Plus, Upwork

Mar 2021 to Present

Remote · 100% Job Success since March 2021 · 23 contracts from clients who hired me again

- **Voice and chat assistant suite** (Nov 2024 to Jul 2025). Built fifteen voice and chat applications as one coordinated set on a shared Python backend, with speech-to-text, text-to-speech, Claude and Llama 3, and a structured-output router that picks the webhook or web search each voice command needs.
- **Weather broadcast automation** (Feb 2022 to Oct 2024). Built a configuration-driven Python system that composites imagery, plots live forecast data and posts to social media on a schedule through a Meta Business Suite integration. Still running unattended at nrweather.com more than four and a half years after launch.
- **Support chatbot** (May 2023 to Feb 2024). Built a FastAPI service that answers from the client's own material with streamed responses, embeds in any site with one script tag, ships in a Docker container, and gives staff a dashboard to correct answers without a developer.
- **WordPress to Astro rebuild** (Jan to Mar 2026). Rebuilt about thirty Elementor pages as a static Astro and TypeScript site, checked page by page against the original and live in seven languages.
- **Test automation** (Dec 2022 to Sep 2023). Rebuilt a Java and Excel driven Selenium framework in Python as a standalone executable that QA staff configure in the browser and run without an IDE.
- **Data analysis**. Built a site-selection model that cut a 432-billion-comparison search to six viable locations, and a clinical falls classifier in scikit-learn, each delivered as a written report.

Independent Software Engineer, Self-employed

Dec 2020 to Present

Remote · Direct clients outside the marketplaces, and products of my own

- **AI travel assistant** for a direct client (Nov 2024 to Feb 2025). Built the dataset first, with four collectors walking map regions by coordinate geometry to gather more than 35,000 location records, then a retrieval pipeline in Node.js and LangChain with structured-output query expansion, relevance ranking and fine-tuning, served on WhatsApp and the web. One of four systems built for the same client over 21 months.
- **Social media monitoring platform** (Nov 2023 to Nov 2024). Collects posts from about fifty accounts every day on a schedule and reports on them, engineered to stay inside the vendor's cheapest API tier. FastAPI, Playwright, Vue and APScheduler behind nginx.
- **Football scouting platform** (Apr to May 2025). Modelled player data across eight seasons for comparison across years, presented as a filterable scouting grid in React and TypeScript over Node.js and MongoDB.
- **Mobile apps** (2026). Built Apexevo, a health app for iPhone and Android in React Native with Expo, TypeScript and Firebase, with an Angular admin panel and a Cloudflare Worker API. It covers nutrition targets, training plans, medication reminders and weekly reviews, works offline, and is opening as a private beta at apexevo.musmannaeem.com. Before it, designed, built and published Sortive, a Flutter productivity app on Google Play.

Web Developer Intern, Riphah International University

Sep 2022 to Jun 2023

Islamabad · On-site

- Second-largest contributor of seven on the university's official alumni management system in Laravel, Vue and MySQL, building features end to end plus the shared UI component set. Still in daily service at alumni.riphah.edu.pk, and I onboarded the developers who took it over.

Freelancer, Fiverr

Mar 2021 to Nov 2023

- Seventeen orders at a 5.0 rating, mostly Python automation and data processing, before moving fully to Upwork.

SKILLS

Languages	Python, TypeScript, JavaScript, SQL, PHP, Dart
Backend	FastAPI, Django, Flask, Node.js, Express, SQLAlchemy, Celery, REST API design, webhooks, WebSockets
Frontend	React, Next.js, Vue, Astro, Tailwind CSS, Zustand, React Query
Data	MariaDB, MySQL, PostgreSQL, MongoDB, Elasticsearch, Redis, Firebase, Supabase
AI	LLM integration (OpenAI, Claude, Llama), retrieval-augmented generation, LangChain, structured output, speech-to-text and text-to-speech, AI coding agents (Claude Code) with MCP
Infrastructure	Linux, systemd, nginx, Docker, AWS, Cloudflare, S3-compatible storage, Stripe, Git, GitHub Actions, CI/CD
Testing and automation	pytest, Playwright, Selenium, web scraping
Mobile	Flutter, React Native with Expo
Soft skills	End-to-end ownership, clear written and spoken English, client and stakeholder communication, scoping and estimates, technical documentation and runbooks, mentoring and onboarding, remote work across time zones, problem solving under ambiguity, design sense with Figma and Illustrator

EDUCATION

BS Software Engineering, Riphah International University, Islamabad

2020 to 2024

CGPA 3.73 / 4.00 · Gold Medalist, awarded to the top graduate of the 2020 session

CERTIFICATIONS

Python for Everybody Specialization, University of Michigan (2022) · The Bits and Bytes of Computer Networking, Google (2023) · Hands-on Introduction to Linux Commands and Shell Scripting, IBM (2022) · Building Scalable Java Microservices with Spring Boot and Spring Cloud, Google Cloud (2022) · Docker, Kubernetes, Terraform and Jenkins courses (2023)

LANGUAGES

English (fluent) · Urdu (native)