

Muhammad Usman Naeem



Senior full stack and AI developer

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Full stack and AI developer working mainly in Python and TypeScript. Five years of contract work delivering backends, data pipelines, automation and front ends, most of it as the only developer on the project, and much of it still running.

Experience

Top Rated Plus Freelancer, Upwork

MAR 2021 – PRESENT

Top Rated Plus with 100% Job Success across 39 contracts since March 2021, with 23 of them coming from clients who had already hired me once.

Independent work, Self projects

DEC 2020 – PRESENT

Projects built on my own initiative rather than for a client: a published mobile app, data collectors, developer tools and a few experiments.

Web Developer Intern, Riphah International University

SEP 2022 – JUN 2023

Web developer at Riphah International University, September 2022 to June 2023, building the alumni management system that is still in service today.

Freelancer, Fiverr

MAR 2021 – NOV 2023

Where my first paid work landed in March 2021. Seventeen completed orders, mostly Python automation and weather graphics, before I moved fully to Upwork.

Selected projects

9 of 61 published projects. The rest are on the site.

Resomix

DEC 2024 – PRESENT

Sole developer, backend, front end, data layer and infrastructure

A music discovery platform that finds tracks by how they actually sound rather than by genre, popularity or metadata. Sole developer, 20 months and counting.

Python · FastAPI · React · TypeScript · Celery · Redis · MariaDB · MongoDB · Elasticsearch · nginx
· Stripe

Mystery Mosaics

SEP 2024 – FEB 2026

Sole developer

Turns an uploaded picture into a printable colour by number mosaic chart, in four cell shapes and three palette sizes, computed entirely in the browser.

TypeScript · Vue · Vuex · Tailwind CSS · PixiJS · Canvas · Image Processing · Frontend · Cloudflare

Sortive

JAN 2026 – FEB 2026

Designer and developer, published to Google Play

A productivity and personal finance app I designed, built and published to Google Play. Fully usable offline, and synced across devices when back online.

Flutter · Dart · Isar · Firebase · Cloud Firestore · Riverpod · go_router

Ariha

NOV 2024 – JUL 2025

Sole developer, speech pipeline, backends and fifteen client applications

A suite of fifteen voice and chat applications, built as one coordinated set so that a client could compare interaction models against one shared backend.

Python · FastAPI · Flask · Vosk · Claude · Llama 3 · Groq · gTTS · JavaScript · Firebase · nginx · Cloudflare · Replit

AI tour guide with a custom retrieval pipeline

NOV 2024 – FEB 2025

Sole developer, data collection, retrieval pipeline, fine-tuning and API

An AI travel assistant answering questions about real places from a dataset I built myself, over 35,000 records, rather than from the model's general knowledge.

Node.js · Express · LangChain · OpenAI API · MongoDB · Mongoose · Python · Playwright · Vue · Geospatial Analysis · Web Scraping

Weather broadcast graphics and alerts automation

FEB 2022 – OCT 2024

Developer, graphics engine, API integration and scheduling

Broadcast graphics automation for a weather channel: composites imagery, plots live forecast data and posts to social on a schedule. Still running unattended years on.

Python · Pillow · ffmpeg · Requests · PyInstaller · Automation

WordPress to Astro rebuild

JAN 2026 – MAR 2026

Sole developer, rebuild, component system, i18n and forms

Around thirty pages of Elementor WordPress rebuilt as a static Astro site, reviewed page by page against the original, now live in seven languages.

Astro · TypeScript · Tailwind CSS · JavaScript · HTML · CSS · WordPress

Football scouting data platform

APR 2025 – MAY 2025

Sole developer, collection through interface

Collects player data at scale and presents it as a filterable scouting grid, so a shortlist is built by narrowing attributes rather than by reading profiles.

TypeScript · React · Vite · Node.js · Playwright · MongoDB · Tailwind CSS · React Query · Zod · Radix UI · Lovable · Web Scraping

Social media monitoring platform

NOV 2023 – NOV 2024

Sole developer, architecture through deployment

Tracks around fifty accounts, collects their posts daily on a schedule and reports on them, engineered to run inside the cheapest API tier the vendor offers.

Python · FastAPI · Playwright · Vue · TypeScript · Tailwind CSS · Firebase · APScheduler · nginx · SSL · Web Scraping · Automation

Skills

LANGUAGES

Python, TypeScript, JavaScript, PHP, Java, C++, C#, Dart, HTML, CSS, Visual Basic Script

FRAMEWORKS AND LIBRARIES	FastAPI, Flask, Django, Tkinter, SQLAlchemy, Celery, Vue, Vuex, React, Astro, Tailwind CSS, Bootstrap, Node.js, Express, Mongoose, Laravel, Flutter, Riverpod, go_router, Pillow, PixiJS, Canvas, Vite, Zustand, React Query, Zod, Radix UI
DATA AND AI	Pandas, NumPy, Matplotlib, scikit-learn, shapely, OpenAI API, LangChain, Claude, Llama 3, Groq, Vosk, gTTS
AUTOMATION AND TOOLING	Selenium, Playwright, BeautifulSoup, Requests, PyInstaller, ffmpeg, Postman, APScheduler
DATA STORES	MongoDB, MySQL, MariaDB, SQLite, Redis, Elasticsearch, Firebase, Cloud Firestore, Isar, Hive, CSV
PLATFORM AND SECURITY	Docker, nginx, Cloudflare, Replit, Lovable, SSL, Stripe, WordPress, Google Maps API, Google Sheets API, API blueprints, Cryptography, Fernet
PRACTICES	Web Scraping, Test Automation, Automation, Data Analysis, Geospatial Analysis, OCR, Frontend, OOP, Image Processing

Education

Bachelor of Science in Software Engineering

2020 – 2024

Riphah International University (I-14 Islamabad) · Grade 3.73 / 4.00

Gold Medalist. Awarded to the top graduate of the 2020 session

Intermediate of Computer Science

2017 – 2019

Superior Group of Colleges (Kot Addu) · Grade 78%

Secondary School Certificate (Computer Science)

2015 – 2017

Mairi Darsgah (Kot Addu) · Grade 86%

Certifications

Python for Everybody Specialization, University of Michigan

AUG 2022

The Bits and Bytes of Computer Networking, Google

JAN 2023

Hands-on Introduction to Linux Commands and Shell Scripting, IBM

JAN 2022

Full project write-ups, client feedback and further certifications at musmannaeem.com