

Ahmad Raza

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Experience

MERN Stack & Applied AI Developer

April 2025 – Present

Webbuggs

Lahore, Pakistan

Technologies: PostgreSQL, MongoDB, Prisma, Express.js, React.js, Node.js, TypeScript, Python, FastAPI, REST APIs

Key projects: FoxTow dispatch platform and Certified Towing AI Dispatch (detailed below)

- Integrated payments, accounting, telephony, mapping, and LLM provider APIs over OAuth and webhooks.
- Designed multi-tenant PostgreSQL schemas and real-time Socket.io services powering live dispatch operations.
- Built queue workers, idempotent jobs, retry and backoff, and TTL caching to keep webhook endpoints responsive.
- Optimized API response times by restructuring database queries and indexing hot read paths.
- Drove code reviews and turned stakeholder requirements into production-ready releases delivered on schedule.

Intern · Webbuggs

Oct 2024 – Mar 2025

Projects

Certified Towing AI Dispatch — AI Call Intake & Live Phone Agent (Dockerized backend)

Technologies: Python, FastAPI, PostgreSQL, Redis (RQ), Docker

Integrations: RingCentral (JWT, webhooks), FoxTow API, Vapi, Deepgram, Groq, DeepSeek, Gemini, SSE

- Integrated the third-party systems behind a live dispatch workflow: RingCentral via server-to-server JWT with cached tokens and verified webhook lifecycle management, FoxTow's dispatch API behind a normalized schema, Vapi live voice, and a Groq/DeepSeek/Gemini fallback LLM chain.
- Built an AI call-processing pipeline on FastAPI with Redis Queue workers — webhooks return immediately, recording jobs run idempotently with retry and backoff, and an OpenAI-compatible SSE endpoint powers a live voice agent with server-side function calling, covered by 480 offline tests.

FoxTow — dev-app.foxtow.com

Technologies: PostgreSQL, Prisma, Node.js, Express.js, React.js, TypeScript, Vite, Tailwind CSS, Socket.io

Integrations: Stripe (webhooks), QuickBooks (OAuth), RingCentral, Google Maps, Optimus GPS, Cloudflare R2

- Integrated the systems the business runs on: Stripe subscription billing with webhooks, QuickBooks Online over OAuth, RingCentral SMS and voice, Google Geocoding, and Optimus GPS telematics for live truck positions.
- Engineered real-time dispatch on Socket.io — driver registration, call assignment, accept/reject, duty-shift changes, and live location events streaming to an interactive dispatcher map.
- Optimized reliability across a multi-tenant PostgreSQL schema: bounded geocode caching with TTL, concurrency gating and retry/backoff, batched cron jobs paginating 500–1000 records, and compound and partial indexes.

Wide ERP POS — wide-erp.netlify.app

Technologies: Next.js, MongoDB, Express.js, Node.js, TypeScript, Tailwind CSS, ShadCN UI, React Query, Zustand

Integrations: Shopify (OAuth, Admin GraphQL & REST), PostEx, InstaWorld & Rocket, Google Cloud Storage

- Integrated Shopify via OAuth and the Admin GraphQL and REST APIs for order, product, and fulfillment sync, plus three courier APIs — PostEx, InstaWorld, and Rocket — for city lookup, shipment creation, and tracking.
- Built a resumable background sync worker that cursor-paginates Shopify products, pipes images through Google Cloud Storage, and bulk-inserts with unordered writes and capped retry attempts on a scheduled run.
- Architected server and client state separately — React Query for cached server state, Zustand for client state — over MongoDB aggregation pipelines driving sales, inventory, and staff dashboards.

Technical Skills

Languages: JavaScript, TypeScript, Python

Applied AI: LLM APIs (Groq, DeepSeek, Gemini), Vapi, Deepgram, SSE streaming, server-side function calling, fallback chains, prompt pipelines, offline eval suites

System Design: Multi-tenant schemas, queue workers, idempotent jobs, retry & backoff, TTL caching, concurrency gating, compound & partial indexing, webhook lifecycles

Frontend: React.js, Next.js, Tailwind CSS, ShadCN UI, React Query, Zustand

Backend: Node.js, Express.js, FastAPI, REST APIs, GraphQL, Socket.io, SSE, Background Jobs, Cron

Databases & Infrastructure: PostgreSQL, MongoDB, MySQL, Redis, Prisma, Docker, Cloudflare R2, GCS, Git

Integrations: Stripe, QuickBooks (OAuth), Shopify Admin API, RingCentral, Google Maps & Geocoding, Courier APIs, Webhooks

Education

Superior University

Lahore, Pakistan

Bachelor of Science in Computer Science