REHAN SHAIK

Full Stack Engineer · Go · TypeScript · Next.js · AI Systems

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PROFESSIONAL SUMMARY

Full Stack Engineer with **4+ years** shipping production systems end-to-end — **Go and TypeScript backends**, **Next.js/React frontends**, **Flutter mobile apps**, and **AI agent pipelines**. Architected a real-time options trading platform in Go, multi-tenant SaaS products serving 200K+ users, production voice AI agents, and large-scale data & LLM fine-tuning pipelines over 100M+ records. Every product I build, I also run — Dockerized deployments, automated backups, reverse proxies, and monitoring on live production infrastructure.

TECHNICAL SKILLS

Languages: Golang, TypeScript, JavaScript, Python, SQL, Dart

Backend: Go (net/http, goroutines/channels, gorilla/websocket, GORM), Bun, Node.js, ElysiaJS, Hono, Express, FastAPI

Frontend: Next.js 14/15/16 (App Router), React 18/19, Vite, Tailwind CSS v4, shadcn/ui, TanStack Query, TipTap

Mobile: Flutter (Riverpod, GoRouter, Firebase Messaging, home-screen widgets), React Native

AI / LLM: OpenAI, xAI/Grok, Gemini, Twilio Media Streams, xAI Realtime API, ElevenLabs, HeyGen, RAG pipelines, vector DBs (ChromaDB), LLM fine-tuning (LoRA), Vercel AI SDK, n8n automation

Databases: PostgreSQL, ClickHouse, TimescaleDB, DuckDB, Redis, SQLite, Supabase (RLS), MySQL, MongoDB

Cloud & DevOps: Docker, Docker Compose, Kubernetes, Kamal 2, GitHub Actions CI/CD, AWS, GCP, DigitalOcean, Caddy, Nginx, Vercel, Tailscale

Real-time: WebSocket, TCP binary protocols, MessagePack, Redis pub/sub, Twilio Media Streams, Firebase Cloud Messaging

Tools: Git, Drizzle ORM, Prisma, Turborepo, Playwright, Remotion, Stripe, Sentry, Better Auth, JWT/OAuth2

WORK EXPERIENCE

Lead Engineer

Dec 2025 – Present

Aumni Digital — New Zealand (Remote)

- Own end-to-end product development across the agency's SaaS portfolio — Go/TypeScript/Python backends, Next.js and React frontends, and AI agent pipelines for web scraping and outbound customer communication
- Built **local SEO automation platform** for agency clients — Google Business Profile posting, rank tracking, and LLM content generation, replacing a manual spreadsheet workflow; shipped multi-organization switchable workspaces, white-label branding with custom domains, and PDF campaign reports
- Built **multi-tenant AI content platform** (Next.js 15, ElysiaJS + Bun, Drizzle, PostgreSQL) generating blog content and images via Grok + Gemini with background workers, recurring schedule recovery, Stripe billing, and Sentry monitoring
- Shipped **industry CRM for a cleaning company** (soclean.co.nz) — multi-step dynamic quoting, job scheduling, staff management, analytics dashboards, and a **24/7 ElevenLabs AI voice agent** for customer support, on Supabase with schema-per-tenant isolation
- Architected **white-label platform monorepo** (Turborepo, shared UI/backend packages) with a CLI that scaffolds fully-branded tenant sites in seconds — tenant requests routed to per-tenant PostgreSQL databases via a super admin registry
- Own production operations end-to-end — Dockerized deployments across client infrastructure, automated database backups, Caddy/Nginx reverse proxying, and Sentry monitoring

Software Engineer (Full-Stack)

Feb 2024 – Sep 2025

Youngminds Technology Solutions Pvt Ltd (Remote)

- Built **multi-tenant restaurant POS platform** serving 50+ active locations — Next.js + Node.js with concurrent multi-location order processing, real-time kitchen order management, Zomato/Swiggy aggregator integration, and thermal printer integration (web & mobile)
- Developed **cross-platform e-commerce mobile app** (React Native) with Razorpay payments, secure checkout flow, and product catalog deployed on iOS & Android
- Architected **Liquor Inventory & CRM system** (Angular + Node.js) with automated monthly/yearly business reporting, vehicle tracking, and stock management workflows

Software Developer
Feb 2023 – Feb 2024

ProYuga Advanced Technologies Ltd (Remote)

- Built **NxtWave CMS** (React + Tailwind CSS) for managing coding questions, MCQs, and cheatsheets consumed by **200K+ active students** across the platform
- Integrated Google Sheets API as real-time data backend, enabling non-technical content teams to manage **1,000+ educational resources** without developer intervention
- Implemented automated content sync ensuring data consistency across distributed systems and CMS endpoints

Software Engineer Intern
May 2022 – Jan 2023

Youngminds Technology Solutions Pvt Ltd

- Built RESTful APIs in Ruby on Rails for the 7Vachan production platform, optimizing endpoint performance
- Redesigned the company website using Chakra UI, improving UX and accessibility across breakpoints

SELECTED PROJECTS

GammaRails — Real-Time Options Trading Platform (Web + Mobile)
gammarails.com

Go · Next.js 16 · Flutter · PostgreSQL · ClickHouse · Redis · WebSocket · Docker

- Architected a **production Go backend running live money** for Indian F&O trading — real-time option chains for NIFTY/BANKNIFTY, VWAP auto-trader, Greeks monitoring, and intraday scheduling on pure `net/http` (no framework)
- Engineered **fault-tolerant market data ingestion** — TCP/WebSocket feed adapters decoupled through a Redis pub/sub event bus, exponential backoff reconnect, stale-feed watchdog, and a backfill queue with gap detection for **99.9% data continuity** during market hours
- Built **multi-hub WebSocket fan-out** with MessagePack+Deflate binary encoding across 3 feed tiers and goroutine-per-client architecture — streaming live option-chain snapshots to web and mobile clients
- Developed **real-time position management** with tick-level SL/TP, trailing stops, **Black-Scholes Greeks pricing**, and broker PortfolioStream integration for live fill detection; pluggable strategy engine with unit-tested modules
- Shipped a **Flutter mobile app** — Riverpod + GoRouter, Firebase push notifications, and home-screen widgets for live PnL — plus a Telegram watcher extracting structured trade signals from channel messages via GPT-4o-mini with prompt caching
- Runs 24/7 in production: 8 Dockerized services (Go, Next.js, Caddy, PostgreSQL, ClickHouse, Redis) with automated backups — Go backend at just **94MB RAM**

Poultry Distribution SaaS

Next.js 16 · Drizzle · PostgreSQL

- Built ledger (khata), load inventory, and GST invoicing software for poultry distributors on **dual-DB multi-tenancy**
- **Sold to 3 poultry distributors**, in daily use

Large-Scale Data & LLM Fine-Tuning Pipelines

Python · asyncio · pandas · PyArrow · DuckDB · Together AI · Llama 3.1 · LoRA

- Architected LLM fine-tuning pipeline processing **21.7M reviews** from 8 global datasets (Google Local, Yelp, Booking.com, Trustpilot, TripAdvisor) — chunked streaming ETL over 33M+ records on commodity hardware, instruction backtranslation for synthetic training data, LoRA-adapted models deployed via Together AI after evaluating 7 providers
- Bulk-ingested **80.6M one-minute OHLC bars across 23,011 symbols** into a columnar DuckDB research database using parallel async workers behind a token-bucket rate limiter — reverse-engineered undocumented API truncation behavior and worked around it with chunked range requests
- Built research framework on top covering analytics, ML feature engineering, momentum studies, and strategy backtesting

AI Voice Agent — Twilio + xAI Realtime Telephony Pipeline

Node.js · Twilio Media Streams · xAI Realtime API · WebSocket

- Engineered **production telephony AI agent** bridging Twilio Media Streams and xAI Realtime API for bidirectional voice conversations over μ-law audio streaming
- Implemented server-side VAD, tool calling, turn management, and outbound dialing — inbound TwiML webhooks → WebSocket media streaming → AI agent → outbound call orchestration with qualification and data-collection flows

Other projects: AI personalized sales-video generator (Remotion · Playwright · HeyGen · ElevenLabs) · chess opening trainer with FSRS spaced repetition (React 19 · Hono · SQLite) · AI chess coach with Stockfish analysis + multi-LLM chat (Python · React) · AI fitness coach over synced gym data (Next.js · Vercel AI SDK · SQLite)