

Anirudh R Memani

Full-Stack Developer

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

PROFILE

Full-stack developer with nearly 3 years of experience shipping client-facing applications and AI agents in FMCG, manufacturing, and SaaS. Works across the full build, from agent and data architecture to backend, frontend, and deployment, on tools that production, supply, and dispatch teams use every day.

EXPERIENCE

Full-Stack Developer

UK&Co LLP

Dec 2025 – Present

Bangalore, IN

- Built and shipped **Krish AI**, a conversational analytics agent that replaced Power BI at client companies. It serves **300+ users** across 5 companies, from field managers to finance and top management, and answers **6,000+ questions a month**. Questions that took an analyst 1 to 3 days now get answers in under 20 seconds, including over WhatsApp. Weekly automated reports flag stockout risk, underperforming sales reps, and distributor churn.
- Architected and built the **Sales Analysis workbench** end-to-end, joining ERP, Zoho Books, FieldAssist, and 5 quick-commerce channels into **10M+ rows** of sales data worth **INR 1,258 crore a year**, with dashboards for multiple personas. Cut MIS reporting from 2 days to a few hours. Its Holt-Winters forecasts showed festival demand would exceed stock on hand plus Zepto's auto-generated open POs, so the client requested extra POs and avoided a **5,000-unit stockout**.
- Built **KanbanQT**, which automates production through dispatch for a mattress manufacturer with **2 plants and 15 warehouses**. It sizes each batch from SKU demand and plant capacity, including outsourced production, and moves short-produced standard SKUs into later batches by priority. QR scans track nearly 1,000 units a day from factory to warehouse, between warehouses, and onto vehicle loads. It cleared a standing **7,000-unit overstock**.
- Rebuilt core parts of **RetailVerse**, the shared platform behind **20+ UK&Co production apps**. Built tenant-aware database routing for 5 client tenants and a Redis **sliding window rate limiter**, and merged rate limits, app keys, and JWT checks into one API gateway. Moved the job scheduler from MySQL polling to Redis, with lease-based crash recovery and duplicate-run prevention across 17 job types, and extended the shared MySQL query layer to BigQuery.

Full-Stack Developer

ProjectX Labs

Jan 2024 – Dec 2025

Bangalore, IN

- Designed and developed the **Air Valve Sizing Tool**, which places and sizes air valves along water pipelines from an elevation profile. A sizing job that took an expert several days of back-and-forth now takes **minutes**, on pipelines as long as **100 km**. IISc approved the formulae, and the company uses the tool on its own projects.
- Wrote its placement rules for pumps, flow meters, high points, and long runs, and its valve selection, which interpolates catalogue flow curves across **4 standards** (AWWA C512, EN 1074-4, AS/NZS 4956, IS 14845). Added a custom HTML5 Canvas profile editor and a Puppeteer PDF report with a bill of materials.
- Designed and built **Elucide Sports** end-to-end, a sponsorship scouting platform where agencies filter athletes, teams, leagues, and brands on **26 to 40 criteria per entity**, such as audience age, markets, reach, and cost. Its query builder compiles each filter set into a typed Prisma query, with match-all or match-any modes and an exact-match second pass.
- Developed an athletics event-management platform for about **10,000 athletes**, with registration entry limits, automated heats, live results, and QR meal vouchers. Also built a UAV telemetry pipeline that sends live MAVLink data from a Raspberry Pi to Mission Planner and records each flight through AWS Kinesis.

Software Engineer

Trigent Software Pvt Ltd

Jul 2023 – Oct 2023

Bangalore, IN

- Worked on a **React Native** field-ops app for quality inspections. Built drag-and-drop chart markers, zoom, signature capture, and image annotation, which replaced paper inspection reports with one searchable record per verification.

PROJECTS

Krish AI · Conversational AI Agent (<i>@ UK&Co</i>) <i>React, Django, Qdrant, BigQuery, SSE</i>	Live
- Built an in-house multi-agent framework over RetailVerse with an orchestrator, agent registry, and tool registry. Agents handle schema-aware NL-to-SQL analysis, documentation with source links, and summarisation. A provider-agnostic layer switches between OpenAI, Anthropic, Azure OpenAI, and HuggingFace with no change to agent logic. - Wrote a SQL guard that accepts only a single SELECT or CTE statement and blocks DDL. It runs MySQL EXPLAIN first and rejects any query that would scan more rows than a set limit. - Added per-tenant retrieval memory in Qdrant with 1536-dimension OpenAI embeddings. An LLM first extracts business entities (products, brands, cities) from the question so the vector search resolves fuzzy phrasing to exact names, and it skips the search when the question has none. - Wrote a custom streaming client in React on fetch and ReadableStream, because EventSource cannot send POST requests with auth headers. It parses NDJSON and SSE frames into 21 chart types, decodes multi-byte UTF-8 across chunk boundaries, and aborts a stalled stream with a watchdog that resets on activity.	
Scrybe Chat · Multi-Model AI Chat Platform <i>React, TanStack, Convex, Firecrawl, AI SDK</i>	Live
Multi-model AI chat with bring-your-own-key, provider fallbacks, multimodal input, and image generation, plus web search through Brave and Firecrawl and external MCP servers over HTTP and SSE.	
Voxella · Distributed Chat Platform <i>React, WebSockets, RabbitMQ, Redis, Turborepo</i>	Live GitHub
Horizontally scalable, event-driven chat built on RabbitMQ and Redis Pub/Sub over WebSockets, with a typed message protocol shared by client and server that fails the build on a shape mismatch. Containerised with Docker and shipped through GitHub Actions CI/CD.	

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java
AI/ML: OpenAI, Anthropic, Azure OpenAI, HuggingFace, Vercel AI SDK, agentic AI architecture, RAG, NL-to-SQL, vector search, guardrails, context engineering, LLM memory management
Data Science: Pandas, scikit-learn, statsmodels, time-series forecasting, Plotly
Frontend: React, Next.js, React Native, Expo, TanStack Query, Redux, Zustand, React Hook Form, Tailwind CSS, Framer Motion, Recharts, ECharts, Chart.js, Leaflet
Backend: Django, Django REST Framework, Node.js, Express, WebSockets, SSE/NDJSON streaming, JWT, RBAC, Prisma, Drizzle, Razorpay
Databases: PostgreSQL, MySQL, MongoDB, Redis, BigQuery, Qdrant
Cloud & DevOps: AWS (EC2, S3 Bucket), Azure (Blob Storage, App Service), Docker, Nginx, Apache2 Server, GitHub Actions CI/CD, Cloudflare, Turborepo
Architecture & Practices: Multi-tenancy, API gateways, rate limiting, job scheduling engines, RabbitMQ, Redis Pub/Sub, CDC pipelines, Agile/Scrum

EDUCATION

MBA, Operations & Data Sciences <i>NMIMS CDOE (Online)</i>	Expected 2028
Bachelor of Commerce <i>Shree Mahaveer Jain College</i>	2021 Bangalore, IN

CERTIFICATES

Generative AI for Data-Driven Business Decision Making , IIM Mumbai	2025
100xDevs Cohort 2.0 (Frontend, Advanced Backend, DevOps)	2024
Java & MERN Full-Stack , JSpiders	2023