Deepak Terse

Associate Technical Architect (Full-Stack & AI)

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LinkedIn | GitHub | Portfolio

10 years of professional experience building end-to-end solutions across diverse business domains. My career spans fast-paced **service** organizations, quality- and scale-focused **product** companies, and independent **consulting**, giving me the ability to adapt quickly, build for long-term maintainability, and take complete ownership from concept to production. Beyond my professional work, I actively build personal projects and explore emerging technologies, driven by curiosity and a passion for software engineering.

Skills

- **Languages:** JavaScript, TypeScript, Python
- **Web:** Node.js, React, Next.js
- **Database:** PostgreSQL, MongoDB, MySQL, Redis, OpenSearch
- **Cloud and Infra:** AWS, Docker, CI/CD, ELK
- **Architecture:** Microservices, Multi-tenant SaaS
- **AI:** LLMs, RAG Architecture, Agentic AI
- **Tooling:** Turborepo, pnpm, Vite, LocalStack, Swagger

Work Experience

KGL | Tweddle / Associate Technical Architect

MAR 2024 - now, Mumbai, India (Hybrid)

Architected and developed a **multi-tenant SaaS** platform from the ground up for global automotive OEMs, driving technology selection, proof-of-concepts, and key architectural decisions.

- Established a **Turborepo** monorepo and backend framework using Node.js, **Clean Architecture**, and **Vertical Slicing** with built-in **multi-tenant** support.
- Developed core platform capabilities including feature flagging, **RBAC** and **SBAC**, testing, localization, API documentation, and database migrations.
- Built an **AI-powered multi-modal search** solution using RAG over 1,000 documents per company.
- Built an AI-powered theming engine that dynamically generates portal themes from a URL or natural-language prompt.
- Evaluated and set up a self-hosted **Plausible** instance and e2e analytics framework.
- Published reusable **NPM packages** to GitHub used across 5 different projects.

Wysa / Senior Full Stack Engineer and Pod Lead

MAY 2021 - JAN 2024, Bangalore, India (Remote)

Contributed to a digital **mental health** platform serving over **5 million** registered users, **50,000 monthly active** users, and approximately **2,000 concurrent** users.

- Led **technical roadmap**, **product delivery**, and engineering best practices through **TRD/PR reviews** and development standards.
- Built **data pipelines**, **internal tools** (saving 75% of team effort), and drove platform modernization through legacy refactoring and dependency upgrades.

- Built an **NHS/Mayden-integrated e-triaging chatbot** with secure workflows and transactional undo, achieving **95%+ routing** accuracy.
- Built a **B2B2C health platform** for 10 corporate insurers, handling high-concurrency ingestion of millions of metrics from **Google Fit**, **HealthKit**, and **Garmin** to deliver automated wellbeing scoring.

BGauss / Technical Consultant and SPOC
OCT 2020 - MAY 2021, Mumbai, India (Hybrid)
Worked with **BGauss**, an electric automobile company with a PAN India presence as a primary technical point of contact.

- Coordinated with 5+ cross-functional teams and external vendors to deliver business-critical applications in strict timelines.
- Built a platform for real estate administrators, brokers, and their sales teams to efficiently manage microsites, leads, and team activities. Details here.
- Managed their cloud infrastructure on **AWS**, **Mongo Atlas**, **GoDaddy**, etc., as well as their **Google Business accounts** and marketing tools like SendGrid.

Sankey Solutions / Solution Lead
AUG 2016 - APR 2020, Thane, India (On-Site)
Delivered multiple web and mobile applications across diverse business domains building a strong foundation in full-stack development.

- Developed solutions implementing **microservices**, **RESTful APIs**, **third-party integrations**, and **cloud** deployments.
- Grew into a Team Lead role, leading engineering teams, collaborating with clients, and taking ownership of technical delivery and solution quality.

Projects

RSS feed based NEWS platform
Built a scalable news platform with article clustering, deduplication, semantic search, and personalized widgets for weather, finance, and sports. Later this was pivoted to a hyperlocal newsletter.

JARVIS - Local AI voice assistant
Built a privacy-first AI assistant capable of web search, reminders, note taking, work logging, and contextual assistance using local AI models and modern agentic workflows.

AI Summarizer Chrome extension
A Chrome extension that summarises web pages, answers questions, and generates quizzes — entirely on-device with unlimited offline usage.

React UI Templates
Reusable UI template for maximum code reuse and faster development. It enabled building CRUD modules with simple JSON and with zero code.

Education

K J Somaiya College of Science and Commerce (Mumbai University) / Bachelor of Science in Information Technology
2013 - 2016, Mumbai, India