

Tejas Kale

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

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SOFTWARE ENGINEER – BACKEND & DISTRIBUTED SYSTEMS

Software engineer focused on backend and distributed systems, with mobile and web experience. Built a 7-service event-driven commerce backend, an **OpenID Connect** authorization server, and a real-time chat platform with a **React Native (Expo)** app, all as personal projects. Works in **TypeScript/Node.js**, with **C++** for algorithm practice. Writes ADRs for key architectural decisions.

TECHNICAL SKILLS

Languages	: TypeScript, JavaScript, C++ (DSA practice)
Backend	: Node.js, Express 5, REST APIs, WebSockets, JWT, OAuth 2.0, OpenID Connect, Zod
Databases	: PostgreSQL, Drizzle ORM, MongoDB, Redis, Valkey
Infrastructure	: RabbitMQ, Docker Compose, GitHub Actions, OpenTelemetry, Jaeger
Frontend	: React, Next.js, React Native (Expo), Tailwind CSS
Testing	: Vitest, Supertest

EDUCATION

Shri Shivaji Science College Parbhani
Bachelor of Computer Applications (BCA)

Maharashtra, India
Jun 2024 – Expected Jun 2028

PROJECTS

Flux	<i>TypeScript, Node.js, PostgreSQL, Valkey, RabbitMQ</i>	Source Code
<ul style="list-style-type: none">Built a quick-commerce backend as 7 independent services with a database per service, communicating through RabbitMQ events (payments simulated; runs locally)Implemented an event-driven order saga with compensation: failed payments release reserved stock, and failed events go to a dead-letter queueBuilt zero-oversell stock reservation with an atomic conditional UPDATE: 100 concurrent requests for 1 unit gave exactly 1 success, across 3 replicasAdded OpenTelemetry tracing (one order = one 83-span Jaeger trace), Valkey rate limiting, 96 tests and per-service GitHub Actions CI; wrote 5 ADRs		
Grantly	<i>Express, TypeScript, Drizzle ORM, PostgreSQL, Redis</i>	Source Code Live Demo
<ul style="list-style-type: none">Built an OpenID Connect authorization server on oidc-provider with a custom Drizzle/PostgreSQL adapter: PKCE, rotating refresh tokens and dynamic client registration (RFC 7591)Designed a <code>/clients</code> API where users create OAuth apps; secrets are shown once and stored encrypted with AES-256-GCMAdded Google and GitHub login with account linking, Redis-backed rate limiting, 13 Vitest/Supertest tests and 5 ADRsDeployed on Render, Neon and Upstash with a Vercel-hosted dashboard; verified the full login flow end to end		
Unsaid (in active development)	<i>Node.js, WebSockets, Valkey, PostgreSQL, React Native (Expo)</i>	Source Code
<ul style="list-style-type: none">Built phone-OTP authentication with hashed phone numbers and OTPs, JWT access tokens and rotating refresh tokensImplemented real-time WebSocket matching (Valkey mood queues) and persistent chat rooms with typing indicators and a heartbeatIntegrated fail-open AI moderation and AI-generated icebreakers, plus reporting, blocking and bans enforced at login and matchingBuilt the Expo client: OTP login, mood picker, real-time chat, report/block actions and profile screen		
CollabHub Team Workspace	<i>React, TypeScript, Vite, Express, MongoDB</i>	Source Code
<ul style="list-style-type: none">Built a full-stack workspace app: React 19/Vite frontend, Express 5/MongoDB API, JWT auth and Zod validationImplemented workspace-based access control, projects, tasks, comments, notifications and activity tracking		