

Tejas P R

Software Engineer

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PROFESSIONAL SUMMARY

Software engineer with 1+ year of production experience architecting high-concurrency backend systems, distributed APIs, and full-stack product features. Focused on scalability, performance optimization, and end-to-end ownership — from async backend services and Redis-backed data layers to component-driven React/Next.js frontends. Published researcher, Springer ICICC 2024.

PROFESSIONAL EXPERIENCE

Cronlab Solutions | Junior Software Developer | March 2025 – Present

- Re-architected a high-concurrency checkout system (Django + Redis + Celery) into a 3-tier async pipeline, cutting latency from 5–10s to 50–100ms and verifying 1,000-thread stress tests with zero overselling.
- Designed a decoupled data-sync architecture and centralized RBAC layer for a B2B marketplace, eliminating cross-service dependencies and securing 100+ API endpoints.
- Built an audit-immutable offer-negotiation engine and a 3-step bulk-lot auction wizard, successfully shipping two independent B2B trading workflows.
- Scaffolded a Turborepo monorepo from scratch with shared UI libraries and Zod validation, standardizing architecture and reducing new-app bootstrap time.
- Implemented a type-safe frontend API layer and built interactive KPI/cultivation dashboards, unifying multi-tenant data into a single operator view.
- Engineered AI agents by writing behavioral instructions in Markdown and integrating external APIs like ChatGPT to execute logic and deploying them to production.
- Built a self-healing Redis/Postgres reconciliation engine to purge orphaned reservations and implemented secure cookie-based JWT authentication to resolve XSS vulnerabilities.

PROJECTS

TouchUp — Booking Platform for makeup artists | React.js, Node.js, Redis, PostgreSQL, Prisma ORM, Docker, TypeScript | [live](#)

- Architected and built Touch Up, a beauty-tech marketplace connecting customers with verified makeup artists, as a Turborepo monorepo spanning a buyer/artist/admin web app, a REST + WebSocket backend, and a dedicated notification worker service.
- Designed the end-to-end payments system (Razorpay integration: order creation, webhook-driven capture, partial refunds, and artist payout splitting) with idempotent order creation, row-level locking (FOR UPDATE) to prevent double-processing, and HMAC-verified webhooks as the sole trust boundary for a public, unauthenticated endpoint.
- Built a CI/CD pipeline on GitHub Actions (lint, typecheck, unit + integration tests against real Postgres, and k6 load-testing scenarios) gated behind a single required status check, with deploy workflows that only trigger after CI succeeds on the target branch — plus local Husky pre-commit/pre-push hooks enforcing the same bar before code ever reaches CI.
- Implemented real-time chat and a multi-channel notification system (native WebSockets with upgrade-time auth for chat; a BullMQ/Redis-queued pipeline for email, SMS, WhatsApp, and in-app notifications), decoupled into its own worker process so slow vendor calls never block the main API.
- Deployed the application using Docker on a VPS, with a self-hosted database and frontend hosted on Cloudflare, incorporating Cloudflare Captcha for enhanced security.

ION — Cloud Deployment Platform | Bun, Node.js, Redis, PostgreSQL, Prisma ORM, Docker, Cloudflare R2/S3, Turborepo [GitHub](#)

- Engineered a scalable Cloud Deployment Platform (Bun, Node.js, Redis, PostgreSQL) using a Distributed Microservices Architecture and an asynchronous, non-blocking build pipeline with Docker for isolated repository builds and real-time status transitions.
- Developed key performance features including high-concurrency log streaming (WebSockets/Redis Pub/Sub) for millisecond-latency user feedback and a custom dynamic “Edge” proxy for optimized static asset delivery.
- Optimized security and resource management by integrating Docker for build-time isolation and leveraging Prisma ORM/PostgreSQL for robust multi-tenant data handling.
- The entire platform orchestrates 5 specialized services (Repo, Build, Request, WebSocket, Auth) via Turborepo and Cloudflare R2/S3 storage.

TECHNICAL SKILLS

Languages/Frameworks: React/Next.js, TypeScript, Node.js/Express, Django, Python, React Native, TailwindCSS, HTML/CSS.

Databases & Cloud: PostgreSQL, MySQL, MongoDB, Redis, TimescaleDB, Docker, Kubernetes, AWS, CI/CD.

Tools & Practices: Git/GitHub, System Design, Unit/Integration Testing, Agile, Turborepo, Postman, Linux, LangChain.

EDUCATION

M S Ramaiah University of Applied Sciences, Bengaluru | 2020 – 2024

Bachelor of Technology, Computer Science and Engineering — CGPA: 8.08 / 10

ACHIEVEMENTS AND CERTIFICATIONS

- **Published:** [Financial Fortunes: Stock Price Prediction Using LSTM](#) — ICICC Conference, Springer, 2024.
- **Certified:** [100xDevs — Full Stack Web Dev & DevOps Cohort 3, 2024](#): System design, TypeScript, Docker, Kubernetes, AWS.
- **Google Cloud Certified:** The Basics of Google Cloud Compute — Google Skills (May 2026) Google Cloud Certified: Introduction to Generative AI — Google Skills (May 2026) Google Cloud Badge: Arcade Base Camp May 2026 — [Google Skills \(May 2026\)](#)