

TEJAS PATEL

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PROFILE

Full Stack Developer and Computer Science undergraduate with hands-on experience building production-grade web applications, backend services, cloud infrastructure, and AI-powered products. Experienced with **Next.js, React, Node.js, Python, FastAPI, PostgreSQL, Supabase, Firebase, Docker, and Google Cloud Platform**. Currently working on **Serin**, an AI-powered interview platform, contributing across frontend, backend, infrastructure, notification systems, queue architecture, analytics, and production deployments. Strong interest in distributed systems, AI/ML, cloud computing, finance, and trading.

EXPERIENCE

Blink Analytics

Full Stack Developer

May 2026 – Present

Remote / India

- Contributing to **Serin**, an AI-powered interview platform that automates candidate evaluation through voice/video interviews, integrity proctoring, and ML-driven analytics.
- Production Notification System:** Architected and shipped a multi-channel notification infrastructure supporting **Firebase Cloud Messaging (FCM)**, **in-app notifications**, and **email via Resend**. Designed approximately **30 notification event types** and integrated live triggers across application submissions, status changes, interview completion, billing events, organization invitations, candidate replies, and email failures.
- Implemented granular notification preferences with per-type and per-channel controls, background push notifications using service workers, optimistic React Query updates, notification deduplication, and URL sanitization to protect against open redirect vulnerabilities.
- Queue Service – Python/FastAPI:** Designed and built a lightweight job queue middleware service from scratch for video-processing workloads, helping reduce cloud infrastructure costs by approximately **70%** by allowing the resource-heavy backend to sleep while idle.
- Designed queue execution with persistent SQLite storage, atomic job reservation, idempotent enqueue operations, max-one concurrent dispatch for GPU-constrained workloads, automatic/manual dispatch gates, pause/resume support, stall detection, backend keep-alive mechanisms, and retry logic with linear backoff optimized for Cloud Run cold starts.
- Containerized the queue service using **Docker** and deployed it on **Google Cloud Run**.
- Backend Video Processing Integration:** Integrated queue callbacks into the FastAPI backend, implemented liveness endpoints, added UUID validation, and refactored video-analysis pipelines to gracefully handle skipped analysis and prevent interview sessions from becoming stuck.
- Internal Queue Analytics Dashboard:** Built real-time operational tooling for monitoring queue jobs, session details, dispatch gates, and service statistics, including administrative APIs for pause, resume, requeue, and queue statistics.
- Landing Page Redesign:** Led a redesign of the public-facing product website including video-based hero sections, interactive feature accordions, testimonial marquees, pricing and FAQ sections, partner logo carousels, responsive navigation, cookie-based light/dark theme management, and authentication/onboarding interfaces.
- Implemented additional production features including interview report preview and downloads, application-wide filtering backed by **Supabase RPC functions**, and Screen Wake Lock support during interviews.

Yudiz Solutions Limited

Web Developer Trainee

Jul 2023 – Aug 2023

Ahmedabad, Gujarat

- Developed a SaaS-based **Form Automation Application** using Next.js with intelligent form-filling capabilities.
- Designed and implemented an automatic form-fill workflow to reduce repetitive manual input and improve submission efficiency.
- Built and optimized **REST API endpoints** for application data retrieval and form automation workflows.
- Collaborated with developers and designers to refine application features, improve UI/UX, and support application deployment.

PROJECTS

Hisaab – Agentic Trading Journal | *Next.js, MongoDB, Supabase* | [Live](#)

2026

- Built a trading journal and analytics platform designed for traders in Indian and Forex markets to systematically record and analyze their trades.
- Designed workflows for tracking individual trades, trading behaviour, psychology, performance, and recurring patterns associated with winning and losing trades.
- Focused the product on transforming raw trading history into structured insights that help traders understand consistency, decision-making, and behavioural patterns.

- Built a complete digital platform for Sarathi Foundation, an NGO supporting underprivileged communities in Ahmedabad.
- Implemented page-level technical SEO strategies across static and server-rendered Next.js pages using **SSR and SSG**.
- Improved search visibility for targeted programs, including the organization's Widow Support Program, helping strengthen the NGO's online presence.
- Worked in a two-person development team to design, develop, optimize, and deploy the production website.

EDUCATION

Pandit Deendayal Energy University

B.Tech in Computer Engineering – CGPA: 9.08/10

2024 – 2027

Gandhinagar, Gujarat

Ranchhodlal Chhotalal Technical Institute

Diploma in Information Technology – 92.34%

2021 – 2024

Ahmedabad, Gujarat

Kalorex Future School

CBSE Class X – 92.33%

2021

Gujarat

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, React Query

Backend: Node.js, Express.js, FastAPI, REST APIs

Databases & BaaS: PostgreSQL, MongoDB, MySQL, Supabase, Firebase

Cloud & DevOps: Google Cloud Platform (GCP), Google Cloud Run, AWS, Docker, CI/CD, GitHub Actions

Cloud Services & Infrastructure: Firebase Cloud Messaging, Supabase RPC, Service Workers, Google Vertex AI

Developer Tools: Git, GitHub, Vercel, Postman, VS Code, Cursor

Concepts: Full Stack Development, RESTful Architecture, Queue Systems, Cloud Deployment, Authentication, API Integration, SEO, Server-Side Rendering, Static Site Generation

Areas of Interest: AI/ML, Distributed Systems, System Design, Cloud Computing, Finance & Trading

ACHIEVEMENTS

- **Grand Prize Winner – HackNUthon 2025**, Nirma University.
- **Runner-Up – Breach 2025**, Pandit Deendayal Energy University.

POSITIONS OF RESPONSIBILITY

Encode Computer Science Club, PDEU

Web Committee Member

Nov 2024 – Jun 2025

Gandhinagar, Gujarat

- Contributed to the club's technical and web activities while collaborating with senior members and fellow developers.
- Helped organize and support technical events including a **React workshop** for students.

CERTIFICATIONS

- **AWS Cloud Technical Essentials** – AWS Training & Certification, 2026
- **Understanding and Incubation of Entrepreneurship** – NPTEL, 2025
- **Complete Python Bootcamp** – Udemy, 2022