Tilak Patel

Ahmedabad, Gujarat, India | +91 8141796535 | pateltilak1711@gmail.com
linkedin.com/in/tilak-patel-92a37b296 | github.com/Tilak46 | routelens.bond

Summary

Full Stack Developer with 1 year of experience independently building production platforms for travel, EdTech, and CRM startups with React, Next.js, Node.js, PostgreSQL, and AWS. Strong in API integrations and fault-tolerant booking and payment workflows. Creator of RouteLens, an AST-based API tool with 100 beta users.

Technical Skills

Languages: JavaScript, TypeScript, SQL, HTML, CSS
Frontend: React, Next.js, Tailwind CSS, Redux Toolkit, React Query, ShadCN UI
Backend: Node.js, Express.js, NestJS, REST APIs, WebSockets, Socket.io, JWT Authentication
Database: PostgreSQL, Prisma ORM, Supabase, Redis
Cloud & DevOps: AWS (EC2, S3, CloudFront, MediaConvert), Docker, Git, GitHub Actions (CI/CD), Firebase, Cloudflare, Vercel
Mobile: React Native, Expo
Integrations: Stripe, PhonePe, WhatsApp Business API (Meta Cloud API), Instagram and Facebook Messaging APIs, Twilio, TravClan

Experience

Software Developer (Full Stack) Oct. 2025 – Present
CoolCliQ Tech *Remote*

- **TechTrail DMC (B2B travel):** Architected a multi-room hotel booking engine (MVP) on the TravClan API (7 endpoints); parallel search sessions let agents pick a different room type per room, keeping only hotels available for all rooms.
- Cut initial static-content calls by **90% (200 to 20)** with scroll-triggered batch loading from Redux; time-to-results fell from **∼47s to ∼38s** (∼37s is supplier latency).
- Built partial-failure booking: backend auto-retries, one-click retry with prefilled data, a pre-booking price re-check, and merged vouchers and invoices in one booking record.
- Engineered a day-wise itinerary builder combining supplier hotels and flights with admin-managed transfers and activities; validates start/end times and durations to block conflicting items.
- **RotationMatch Network (EdTech):** Independently built the platform (**200+ students, 100+ preceptors**): website, Node.js backend, admin panel, React Native app, role-based access, OTP verification, admin approval, and Stripe one-time and recurring payments.
- Designed a Udemy-style video pipeline (AWS MediaConvert, HLS, S3, CloudFront) for chunked streaming; added Firebase notifications, Supabase realtime chat, and GitHub Actions CI/CD.
- **CRM:** Integrated WhatsApp Business API (Embedded Signup, webhooks, templates, campaigns) and Instagram/Facebook messaging; built a form builder with website embeds; now building WhatsApp automation workflows.
- Worked directly with clients on requirements and demos; mentored two interns.

Projects

RouteLens | *Electron, React, TypeScript, Tree-sitter* | Website | GitHub Dec. 2025 – Present

- Built RouteLens to remove the manual setup of API clients: it scans backend source (Node.js, Python, Go, Rust, C#, PHP) with no spec, install, or running app and generates a ready-to-test API collection; a **376-route** production backend scans in **∼2s** versus an estimated 3+ hours by hand.
- Chose deterministic static analysis over pure LLM extraction for repeatable results; validated on **∼100** open-source backends, with the deepest testing on Node.js (Express, NestJS, Fastify, Next.js) and Python.
- Adding an LLM resolver for custom and factory routes that accepts output only after citation-backed validation (**0 unsafe acceptances in 64 benchmark cases**); **∼100 beta users**.

Education

President Institute of Computer Application 2023 – 2026
Bachelor of Computer Applications (BCA), CGPA: 7.3/10 *Ahmedabad, Gujarat*