

Vivek Patel

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EDUCATION

Vidyavardhini's College Of Engineering And Technology

Bachelor of Engineering in Information and Technology

Vasai, Maharashtra

Aug. 2021– May 2025

E. S. Andrades College of Science

Science (Computer Science)

Vasai, Maharashtra

Aug. 2019– May 2021

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go, Python, HTML/CSS, SQL

Frameworks: Node.js, Next.js, React, Vue, Express, Hono, ElysiaJS, Tailwind CSS

Backend & Infrastructure: PostgreSQL, MongoDB, Redis, Kafka, Cloudflare Workers, Supabase, Vercel, Docker

AI & Agent Tooling: Claude Code, Claude Agent SDK, Model Context Protocol, LLM tool-calling/orchestration, OpenTelemetry, Gemini/Vercel AI SDK

Tools & Specialized: Github Copilot, Git, Linux (Fedora), Bun, Posthog Analytics, TradingView (Lightweight-charts), Fyers/Upstox APIs

EXPERIENCE

Full Stack Developer

Wizzer.in

Nov 2025 – present

Dadar, Maharashtra

- Spearheaded the migration of the platform's core dealer broker framework from Keynote to AC Agarwal, accelerating the deployment timeline by 75% while maintaining data integrity.
- Architected LLM tool-calling engines within the core WizGPT ecosystem to handle multi-step workflows, enabling automated strategies log analysis and real-time execution performance metrics evaluation.
- Orchestrated a resilient, asynchronous backend request pipeline to securely intercept, validate, and route incoming multi-agent user prompts to target production models.
- Engineered robust API integrations for Fyers and Upstox, facilitating real-time trade execution and automated portfolio management.
- Architected a full-scale refactor of core strategy and client profiles, enhancing code modularity and reducing API response times by 20%.
- Optimized data visualization logic for financial charts, utilizing lightweight-charts by TradingView to provide low-latency performance for strategy backtesting results.
- Refactored the existing subscription subsystem to split credit usage logic into dual streams, accommodating complex business rules while writing and executing verified data migration scripts for 300+ active users with zero downtime.
- Integrated Posthog Analytics to monitor conversion funnels, enabling data-led product iterations that improved user onboarding efficiency.
- Created workflows to populate aggregated production stats in Zoho for the sales and marketing teams.

Software Developer Intern

MSS Powersys

Jan 2024 – June 2024

Vasai, Maharashtra

- Migrated from AWS cloud to a local deployment which helped in reducing deployment cost.
- Migrated from MongoDB to PostgreSQL while ensuring backward compatibility.
- Created a responsive Dashboard using React to display uptime analytics of the IoT hardware.

PROJECTS

- Drej** | *TypeScript, Bun, OpenSandbox, PostgreSQL, SQLite, OpenTelemetry, Claude Agent SDK* 2026
- Built a sandbox execution substrate and agent orchestration platform on OpenSandbox, exposing live sandbox containers as first-class objects with spawn, exec, checkpoint, fork, and resume primitives.
 - Engineered a durable, event-sourced audit ledger with pluggable SQLite/PostgreSQL storage adapters, enabling stateless host processes to replay cached execution results and resume interrupted runs transparently.
 - Designed **@drej/workflow**, a lazy-evaluation pipeline builder supporting retries with backoff, conditional branching, **forEach**, and parallel fan-out, flushed as a single durable operation per run.
 - Built an Agent SDK bridging the Pi coding agent over an HTTP/SSE RPC channel into sandboxes, with snapshot-cached setup, spawn-depth/max-agent enforcement, and declarative per-adaptor observability config.
 - Shipped **drejx**, a CLI/TUI for managing agent sandboxes end-to-end (spawn, fork, prompt, logs, kill), plus a Next.js dashboard correlating multi-sandbox runs via a shared run-ID across forks and retries.
 - Integrated OpenTelemetry and Arize Phoenix tracing adapters to emit per-agent/per-tool spans, run cost metrics, and live inline evaluation annotations across orchestrated sandbox runs.
- Alineo** | *Next.js, Hono, Cloudflare Workers, Supabase, Gemini, Vercel AI SDK* Jun 2025
- Developed an agentic platform for PMs featuring an AI Manager that validates business plans and generates reports.
 - Integrated agentic pipelines to automate communication and report delivery across channels.
- Dragon Egg Gallery** | *Next.js, Spine, TypeScript, PWA, SEO* Dec 2024
- Developed a PWA for customizing 500+ game characters, reaching 100 daily active users at peak.
 - Implemented dynamic SEO generation for SSR pages to improve community reach.

ACHIEVEMENTS

- Ecell InnovateX** | **1st Place** | *B-Plan Pitch* Oct 2024
- Pitched a business plan for the financial inclusion of the unbanked Indian population using AI.
- VCET Hackathon** | **3rd Place** | *Node.js, Yahoo Finance, MongoDB* Oct 2024
- Developed backend for a personal finance app, integrating Plaid API and market data via Alpha Vantage.
- Code-o-Fiesta Hackathon** | **2nd Place** | *Node.js, React, Material UI* Sep 2024
- Developed a sharing-economy platform for farmers to rent equipment, featuring a management dashboard.