Vivek Patel

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Technical Skills

Languages: JavaScript, TypeScript, Python, HTML/CSS, SQL
Frameworks: Node.js, Next.js, React, Vue, Express, Hono, ElysiaJS, Tailwind CSS
Backend & Infrastructure: PostgreSQL, MongoDB, Redis, Cloudflare Workers, Supabase, Vercel, Docker, OpenSandbox
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 Nov 2025 – Present
Wizzer.in *Dadar, Maharashtra*

- Led the migration of the core broker integration from Keynote to AC Agarwal (dealer-broker trading platforms) in **one week against a one-month Jira estimate**, with data integrity intact.
- Built LLM tool-calling engines in the WizGPT ecosystem for multi-step workflows, enabling **automated strategy log analysis and real-time execution evaluation** through an async multi-agent prompt pipeline.
- Built **self-improving AI voice agents in a loop** over Zoho CRM lead campaigns: an LLM scores each call, the score is written back to the CRM, and an optimizer patches the agent's prompt before the next dial. Pipecat, Deepgram, Cartesia/ElevenLabs, and Twilio power the calls.
- Guarded the loop against regressions with versioned prompt rules on trial, a patch guard for unsafe edits, automatic rollback, atomic lead claims, and do-not-call handling, so **a single campaign over 10k leads runs unattended**.
- Built an internal WhatsApp extension for Zoho CRM with an **autonomous reply agent**: a Claude tool-calling loop drafts a reply to every inbound message and, per contact, can send it automatically.
- Engineered API integrations for Fyers and Upstox, enabling **real-time trade execution and automated portfolio management**.

Software Developer Intern Jan 2024 – Jun 2024
MSS Powersys *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

Alineo | *Open Source* | *TypeScript, Bun, OpenSandbox, PostgreSQL, MCP* Jun 2026 – Present

- Maintain this open-source control plane for running swarms of sandboxed AI agents, published to npm with **roughly 800 monthly downloads**. It **forks a live sandbox with its checkout and installed packages intact**, then lets you steer, pause, and resume agents mid-turn.
- Filed **3 upstream OpenSandbox issues** from production use, including a **root-cause diagnosis** of gVisor snapshots silently dropping writes and an `execd` SSE termination bug.
- Engineered `alineod`, a Bun/Elysia HTTP+SSE daemon that replays a durable, event-sourced ledger (pluggable SQLite/PostgreSQL adapters) to reattach to in-flight turns, hardened with idempotency keys and a **fault-injection test harness** so **the daemon can crash without losing the swarm**.
- Added a **human-in-the-loop permission gate** and **network egress enforcement** (CIDR targets, secret injection) that hold risky tool calls and outbound traffic for approval.
- Designed `@alineo-labs/workflow`, a lazy pipeline builder with retries and backoff, conditional branching, `forEach`, and **parallel fan-out**, flushed as one durable operation per run.
- Shipped `alineo-cli` and `alineo-mcp`, exposing swarm control to **Claude Code and Cursor**, with OpenTelemetry per-agent/per-tool spans and **cost metrics across runs**.

Education

Vidyavardhini's College Of Engineering And Technology — Vasai, Maharashtra
Bachelor of Engineering in Information Technology — *Aug 2021 – May 2025*

Achievements

Hacktoberfest Hack Day Mumbai x FAIR | **Runner-up** | Open-source AI hackathon hosted at Paytm — Oct 2026
Ecell InnovateX | **1st Place** | B-plan pitch: AI for financial inclusion of unbanked Indians — Oct 2024
VCET Hackathon | **3rd Place** | Personal finance app backend (Node.js, Plaid, Alpha Vantage) — Oct 2024
Code-o-Fiesta Hackathon | **2nd Place** | Equipment-rental platform for farmers (Node.js, React) — Sep 2024