

SAI PRAVEEN TATIPARTHI

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EXPERIENCE

Lorentz.Co

Software Engineer

Feb 2025 - Present

San Jose, CA

- Early engineer on a five-person team, owning the cloud deployment platform end to end for 2,600+ users: TypeScript/Node/Express services, PostgreSQL via Prisma, Docker, Azure IaC (Bicep), and a React/ReactFlow canvas workspace.
- Cut warm-path deploy time (cache-hit builds) from about 6 minutes to under 12 seconds, roughly 30x across 100 to 150 deploys a day, via a five-layer caching architecture and an autoscaled pool of pre-provisioned builders (13 ms median queue wait).
- Kept multi-minute deploys off the request path: BullMQ/Redis job queues, Azure Service Bus messaging, WebSocket channels streaming live state, and a reaper reconciling orphaned cloud resources when a deploy dies mid-flight.
- Made AI code generation survive real usage (LangChain): durable, resumable jobs that outlive a closed tab, streamed over SSE, RAG-grounded on project state, with multi-provider fallback and metered token billing.
- Cut failed deployments reaching users: a diagnose-and-repair agent auto-heals failures within a bounded retry budget, tiered verification gates every deploy, and a 12-case harness proves generated apps actually build in Docker before CI passes.
- Made the platform commercially operable: OAuth2/JWT sessions, Stripe usage metering, quotas over per-tenant PostgreSQL isolation, and custom domains with auto SSL.
- Standardized how the team ships with AI: an internal agentic harness of MCP servers and agent skills putting the platform's own context and conventions inside every engineer's coding agent (Claude Code, Cursor).

Tata Consultancy Services

Java Developer

Jul 2021 - Aug 2022

India

- Architected full-stack features for finance web apps (Angular, Java Spring Boot) in an Agile/Scrum team, improving transaction speed by 22%; built microservices for cross-service data sync.
- Cut regression testing time 40% with Selenium and Jenkins, tuned PostgreSQL indexing for 35% faster responses, and added ELK-stack monitoring.

Hoopers Group

Java Full Stack Developer

Jan 2021 - Jun 2021

India

- Developed e-commerce front-end modules (AngularJS) with Spring Boot REST APIs over MySQL, tested with JUnit and Postman.

PROJECTS

Agent Observatory | *Tauri, Rust, React, TypeScript, SQLite*

[GitHub](#)

- Built a native macOS app that makes AI coding spend visible: replays Claude Code and Cursor sessions with per-session dollar costs and waste detection, by reverse-engineering both tools' undocumented storage into one model.

Doccrew | *FastAPI, Next.js, Claude API, BM25*

[Live](#) | [GitHub](#)

- Built a RAG Q&A system that cannot ship a hallucination: a deterministic verifier strikes every unsupported sentence and refuses to answer when nothing survives; a live SSE trace streams every stage.

PR Review Crew | *LangGraph, FastAPI, Celery, Postgres, React*

[Live](#) | [GitHub](#)

- Built an installable GitHub App reviewing PRs for intent-vs-execution conformance: agents (LangGraph) explore the repo via a bounded tool loop and flag divergences between what a PR claims and what its diff does.
- Grounded reviews in a tree-sitter code graph (symbols and call/import edges in Postgres); idempotent, retry-safe delivery holds a review to \$0.02 to \$0.07 per PR, and an adversarial verifier drops findings it cannot tie to the diff; 250+ CI-gated tests.

SKILLS

Languages	: TypeScript, JavaScript, Python, Java, SQL
Backend & Data	: Node.js, Express, FastAPI, Spring Boot, microservices, REST API design (OpenAPI), distributed systems, Prisma, BullMQ, WebSockets, Zod, PostgreSQL, MongoDB, MySQL, Redis
AI & LLM Systems	: LangChain, LangGraph, MCP, agent skills, RAG pipelines, prompt engineering, eval harnesses, Claude API, Azure OpenAI, self-hosted models (vLLM, Ollama)
Frontend	: React, Next.js, Angular, ReactFlow, Zustand, Tailwind CSS
Cloud & DevOps	: Azure (Container Apps, Blob Storage, DNS/CDN), AWS (Certified Solutions Architect), Docker, Kubernetes, Bicep (IaC), GitHub Actions, Jenkins
Practices	: AI-assisted development (Claude Code, Cursor), Agile/Scrum, TDD, unit and integration testing, CI/CD, system design, code reviews, Git, Linux, Jira, Vitest, Playwright
Observability	: OpenTelemetry, Grafana, Splunk, ELK

EDUCATION

San Jose State University

M.S. Computer Science; thesis defense and final requirements complete

Conferral Dec 2026

San Jose, CA

V.R. Siddhartha Engineering College

B.Tech Computer Science

2017 - 2021

India