Parth Kadam

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Education

Savitribai Phule Pune University — Pune, Maharashtra
Bachelor of Engineering in Computer Engineering — *2023 – 2027*

Experience

Software Developer Intern — May 2026 – Present
Gauge.ro — *Remote*

- Owned production backend services across **5 applications** using Node.js, PostgreSQL, MQTT, and WebSockets, powering device control, telemetry, filter health, water-quality workflows, and field operations.
- Shipped an automated IoT device-testing platform covering **9 validation scenarios**, with MQTT/HTTP execution, sensor validation, connectivity checks, persistent test history, WebSocket-based live status, and Jenkins/PM2 deployment.
- Extended shared APIs across **2 hardware generations**, implementing model/PCB-aware capabilities, provisioning flows, and reliability fixes across job queues, notifications, MQTT workflows, and ticket state transitions; shipped **10+ production API PRs**.

Projects

PaperDesk | *TypeScript, Node.js, Hono, Redis, TimescaleDB/PostgreSQL, Docker, PM2, nginx, Prometheus, Loki, Grafana*
Centralized Trading Exchange | Live : https://paperdesk.fun/ | Github : github.com/ParthKadam11/PaperDesk

- Built a 5-service paper exchange with a deterministic single-writer matching engine, supporting 2 markets (spot and USD-margined perpetuals), integer-based accounting, and WAL/snapshot recovery for crash restart.
- Designed an asynchronous order pipeline with a PostgreSQL transactional outbox and Redis Streams, separating durable OMS state from matching-engine execution and supporting three time-in-force types: GTC, IOC, and FOK.
- Implemented recoverable real-time market-data delivery with Redis Pub/Sub, SSE sequence catch-up, and reconciliation; persisted trades, BBO, and candles in TimescaleDB, with Prometheus metrics, Loki logs, and Grafana dashboards across the exchange deployment.

ColabCanvas | *TypeScript, Next.js, Node.js, WebSockets, PostgreSQL (Neon), Prisma, Tailwind CSS*
Real-Time Collaborative Whiteboard | Live : colabcanvas.me | Github : github.com/ParthKadam11/ColabCanvas

- Designed and built a real-time collaborative whiteboard using WebSockets and room-based synchronization, achieving low-latency (∼90ms) collaboration.
- Multi-user concurrency using append-only state and canvas re-rendering from shared data, ensuring consistent UI across clients with minimal frame drops during continuous drawing.
- Used event-driven data flow (sending drawing instructions instead of pixels) and implemented authentication, active user tracking, and persistent storage using PostgreSQL (Neon) for reliable real-time collaboration.

WTFIsRunning | *Go, OpenSSH, Docker, nginx*
Linux Runtime TUI | Github : github.com/ParthKadam11/wtfisrunning

- Built a Go CLI that discovers Linux runtime topology over SSH using parallel collectors for Docker, listening ports, nginx, and systemd, merging results into a unified service graph.
- Designed a local/remote Runner abstraction for concurrent discovery, with partial-failure handling so individual collector failures do not break the overall runtime snapshot.
- Parsed nginx and Docker Compose metadata to infer proxy, dependency, network, and port relationships, exposing the topology through an interactive TUI.

Technical Skills

Languages: TypeScript, JavaScript, Go, SQL
Technologies/Frameworks: React, Next.js, Hono, Node.js, Express.js, REST APIs, MQTT, WebSockets, SSE, JWT
Database: PostgreSQL, TimescaleDB, MongoDB (Mongoose), Prisma/Drizzle, Redis, pgBoss
Developer Tools: Docker, Turborepo, Linux, Git, GitHub Actions, Bun, PM2, OpenSSH, nginx, Prometheus, Loki, Grafana