KATHAN PANDYA

Frontend-heavy Full-Stack Engineer

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SUMMARY

Full-Stack Developer with **nearly 3 years** of experience, specializing in **frontend performance and architecture** with Angular and SvelteKit. Reduced bundle size by **95%** and page load from **8s to under 2s**, and **owned a live payments platform end to end** for **~1,000 users**, from requirements to production.

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript, HTML, CSS, SCSS
Frontend:	Angular, Svelte, React, RxJS, Tailwind CSS, Bootstrap
Backend & DB:	Node.js, Express, REST APIs, SSE, PostgreSQL, MongoDB
Tools:	Git, GitHub Actions, Docker, Claude Code (AI-assisted development)

WORK EXPERIENCE

Full Stack Developer Dec 2023 – Present

Oizom Instruments · Ahmedabad

- Reduced application bundle size by **95% (22.77 MB → 96 kB initial load)** through lazy loading, tree-shaking and restructuring the service layer across **30+ features**.
- Optimized **first contentful paint from 8+ seconds to under 2 seconds** via aggressive code-splitting and a leaner application structure.
- Moved heatmap rendering from **server-generated images** to **in-browser WebAssembly**, cutting time to first heatmap from **~23s to under 3s (~8x faster)**.
- Re-architected the display module from **10 hardcoded screens** into a **JSON-driven widget system** with **16 reusable widgets**, enabling new layouts and screen sizes through **configuration instead of code changes**; deployed on **large public displays**.
- Diagnosed a performance bottleneck caused by **localStorage** access inside data loops and resolved it with an **in-memory caching layer**, enabling smooth rendering of **20,000+ chart data points** (up from 500).
- Engineered a **CI/CD pipeline using GitHub Actions** that automatically builds and publishes tagged **Docker images** for local deployments, replacing manual builds on developer machines with a **single branch push**.
- Built **REST APIs in Express.js** and wrote a **PostgreSQL migration script** that merged duplicated **user preference settings** into a **single platform-wide configuration** for all users, preserving their custom thresholds.

EDUCATION

Bachelor of Engineering in Information Technology 2019 - 2023

LDRP Institute Of Research and Technology

CGPA: 7.67

PROJECTS

MSY — Community Welfare Platform (Volunteer, Live) *SvelteKit, Express.js, MongoDB*

- Led **end-to-end digitization** of a community welfare trust's **paper-based** membership and payment process, owning requirements, UX, architecture and delivery of a **live bilingual platform** serving **~1,000 members**.
- Eliminated **hand-written receipts and manual payment checks** by integrating **Razorpay/UPI payments**, auto-generated receipts and **AI-based payment screenshot verification** using the Claude API.
- Designed a **simple, mobile-first UI for members aged 50+**, giving **one-click access** to dues, payment history and nominee details, shipped as a **PWA** installable on Android and iOS.
- Architected a **48-page SvelteKit frontend** with a shared component library, and secured payments using **webhook verification and MongoDB transactions** to prevent duplicate or lost payments.