MOHITH KORANGI

Software Engineer · Frontend & Agentic AI · React · TypeScript · Design Systems
mohithguptak@gmail.com | Bengaluru | LinkedIn | GitHub | Portfolio | Medium

SUMMARY

Software engineer with 4+ years building frontend-heavy products, from contributing to **CEO Award-winning platforms at Mastercard** to revamping the UI and re-architecting the API layer at **Trupeer.ai**. I own products end to end and use agentic AI to ship across the stack, held to a **zero-P0 bar**.

EXPERIENCE

Trupeer.ai, Bengaluru — Jul 2026 – Present
Software Engineer (Full Stack) · every initiative below built and owned solo

- **Revamped the entire product UI** and built a design system and component library from scratch within my first 45 days.
- Re-architected the **API layer** to centralize requests, auth and error handling, then rebuilt Sentry reporting and logging on top of it, raising error coverage from **40% to 95%**.
- Revamped the **core video editing experience**, enforced design-system consistency across repos through robust rules, tests and CI checks, and shipped AI-generated process-flow diagrams from uploaded videos.
- Built a **Figma-to-code agent harness** with a visual feedback loop that turns designs into reusable components at 98–99% accuracy, speeding up UI development across the team (LinkedIn post).
- Built a **live-testing agent skill harness** that verifies changes in the implemented feature and generates a user flow report with screenshots included, plus a sanity suite that covers every route & main user action to avoid a P0 / P1.
- Owned frontend and backend delivery through agentic coding: **zero P0 and zero P1 incidents**, with no dedicated QA.

Mastercard Data & Services, Pune — Jul 2022 – Jun 2026
Software Engineer II (Mar 2024 – Jun 2026) · Software Engineer (Jul 2022 – Feb 2024)

- **Founding engineer** on Mastercard's first near real-time anomaly detection platform; built its data-intensive insights UI for analytics and alerting on banking transactions.
- Contributed to two **CEO Award-winning** global platforms (Mastercard's highest honour) that unlocked a $50M revenue opportunity, projected to drive $100M in yearly revenue.
- Introduced a **fake-backend architecture** so UI work no longer waited on backend APIs, delivering features about 30% faster, and maintained a micro-frontend setup for hosting parent and child apps.
- Automated QA test data with **PL/SQL DML scripts**, cutting manual testing by 70% and saving 5–6 days per release.
- **Co-led UI and QA teams of 9+** alongside 7+ backend engineers and PMs; improved app performance by 50% through stress and load testing, and cut rework by 30% with stricter PR reviews.

PERSONAL PROJECTS

AskMyChats Live — React | TypeScript | Postgres | Claude, OpenAI | Playwright — Dec 2025

- AI app that imports chat exports, then categorizes, summarizes and answers questions over them through a **multi-provider LLM layer** and vector search.
- Designed the ingestion pipeline around signed WhatsApp webhooks and a **Postgres-backed job queue** with idempotent retries, so large imports recover from failures without processing anything twice.
- Kept LLM costs bounded with **plan-based usage limits and kill switches**; unit and end-to-end suites run in CI.

EndPRs GitHub — Next.js | Fastify | BullMQ | pgvector | Claude Agent SDK | Docker — Feb 2026

- **Autonomous agent** that reads pull request review comments, writes fixes with the Claude Agent SDK, and pushes them back to the PR as commits.
- Gave the agent codebase context through **RAG over code embeddings**, and scaled it with a rate-limited worker pool and ETag-based GitHub polling that uses no API quota when nothing has changed.

PanelCut — Python | OpenCV | librosa | FastAPI | React | TypeScript | WebCodecs | Remotion — Oct 2026

- Turns manga and webtoon PDFs into beat-synced music videos: **computer vision** detects and orders panels and each shot's length follows its text density and snaps to the music's beats.
- Built an **in-browser video renderer** on WebCodecs that encodes MP4s locally, about 3x faster than the Remotion pipeline, with parity tests against Remotion's output; chapter files never leave the user's machine.

Also built

- **Local Agentic Harness/workspace setup** – Skills, hooks, testing harness and MCP servers covering spec, tests, review, live QA, release and monitoring.
- **ssTitles** | PWA, Gemini vision – turns screenshots into a watch list, titles verified via TMDB and AniList. Link (Nov 2026)
- **TestYourTrade** | React, Socket.io, Redis – real-time paper trading with Redis order matching and near-live prices. (Apr 2026)

SKILLS

- **AI & Agentic:** Claude Code, Agent SDK, agent skills, MCP servers, spec-driven development, Figma-to-code, LLM APIs, RAG
- **Languages & Frameworks:** TypeScript, JavaScript, React, Redux, Next.js, Python, SQL, PL/SQL
- **Frontend & Architecture:** Design systems, micro-frontends, Component library from scratch, Tailwind, RTK
- **Quality & Tools:** Playwright, Sentry, JMeter, Vite, Webpack, Git, Docker, PostgreSQL, pgvector, Cloudflare, Vercel

EDUCATION

National Institute of Technology (NIT) Warangal · *B.Tech · CGPA 7* — Aug 2018 – May 2022