

Sheldon Mendonca

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Summary

Full-stack engineer who owns problems end to end – from architecture decisions to production monitoring. Primary frontend architect and technical owner across six production applications at an early-stage startup, making the core stack, state-management and tooling decisions and mentoring an intern into a full-time hire. Independently designed and built a distributed payments platform applying production-grade reliability patterns (idempotency, transactional outbox, event-driven consistency, reconciliation) under real engineering trade-offs of correctness, scope and cost. Uses AI-assisted development tools (Codex, Claude Code) daily to increase leverage without sacrificing code quality.

Skills

Core: React, TypeScript, Java (Spring Boot), Go

Frontend: Next.js, JavaScript (ES6+), HTML5, CSS3, Hooks, Context API, SSG/ISR, lazy loading, code splitting

State Management: Redux Toolkit, Zustand, React Query

Backend & Data: MySQL, PostgreSQL, Kafka, Redis, RESTful APIs, JWT authentication, Google/Microsoft OAuth

Observability & Tooling: Sentry, Grafana, Prometheus, Lighthouse, Core Web Vitals, CI/CD (AWS Amplify, Bitbucket Pipelines)

AI-Assisted Development: Codex, Claude Code – used daily for code generation, refactoring and debugging, with outputs validated via code review

Experience

Software Development Engineer

May 2024 – Apr 2026

HireHunch / JusRecruit

Bengaluru, India

- Owned frontend architecture and technical decision-making across six production applications (two client apps, two internal tools, two marketing sites): selected the core stack (React, Next.js, TypeScript), defined project structure and Redux slice organization, and built SSG/ISR-rendered job pages for SEO. Hired, onboarded and mentored a frontend intern into a full-time engineer, reviewing PRs and setting the quality bar.
- Led the JusRecruit MVP from zero to launch in four months: a marketing site plus a client app with OAuth, AI-assisted job-post creation, dynamic workflows, and full candidate/interviewer flows.
- Built REST APIs in Spring Boot and MySQL, including OpenAI-based parsing for job descriptions and candidate resumes, and optimized backend flows by fixing N+1 query issues in controllers.
- Designed and maintained a reusable component library (~40 components, an estimated ~80% reuse) on custom hooks, cutting duplication across two codebases; managed state with Redux Toolkit (per-service slices) and React Query for always-fresh polling data.
- Drove frontend performance: improved homepage Lighthouse score from ~20 to ~80 and cut First Contentful Paint from 3.0s to 0.7s via code splitting, lazy loading, image/font optimization and CDN delivery.
- Led frontend architecture from inception for a real-time AI interview platform (WebRTC/LiveKit, collaborative editor, live proctoring); contributed to scaling a related assessment platform's frontend from 300 to 600 concurrent users.
- Set up Sentry and Grafana for production monitoring, proactively fixing 25+ UX and functional bugs, often before users reported them; as an early-stage startup, throughput was the priority, so testing targeted critical flows over full coverage.

Senior Stress Engineer

Jul 2018 – Oct 2022

Taal Tech India Pvt. Ltd.

Bengaluru, India

- Owned full project lifecycle for 5+ aerospace engineering projects under strict deadlines and quality constraints; built internal automation tooling that sparked a transition into software engineering.

Personal Project

FlowPay – Distributed Payments Platform

2026 – Present

Go, Kafka, PostgreSQL, Redis, Docker

- Built a real-time payment-timeline UI consuming a backend Server-Sent Events stream (snapshot + live updates + heartbeat) to visualize each stage of a distributed transaction end to end – a genuine full-stack integration point, not boilerplate CRUD UI.
- Designed backend reliability mechanisms: idempotent payment APIs via conditional PostgreSQL state, a transactional outbox solving the dual-write problem with Kafka, and replay-safe consumers with failure recovery for duplicate and partial events.
- Built a discount/cashback offer engine enforcing global and per-user redemption limits under concurrent access using optimistic locking, plus a read-only reconciliation service catching drift across payments, idempotency records and offer redemptions; represented all monetary values as integers to avoid floating-point errors.
- Made and articulated deliberate architecture trade-offs – folding ledger/wallet logic into the Account Service rather than a separate boundary, scoping out Kubernetes/multi-region – balancing correctness, delivery speed and cost.

Education

B.Tech, Mechanical Engineering – Manipal Institute of Technology

Jul 2014 – May 2018

CGPA: 8.54/10

Full Stack Development – NeoG Camp (Bootcamp)

Jan – Dec 2023