UTSAV KHATRI

Software Development Engineer | Full-Stack & Edge Architecture

+91 6355321582 | khatriutsav40@gmail.com | linkedin.com/in/utsavkhatri | github.com/utsav173

PROFESSIONAL SUMMARY

Software Development Engineer specializing in edge-native architectures, multi-tenant SaaS, and applied AI integration. Proven track record of orchestrating complex systems, from high-throughput enterprise financial ledgers to low-latency creator platforms. Adept at leveraging modern runtimes (Bun, Cloudflare Workers) and LLM orchestration to drive sub-millisecond latencies, automate enterprise operations, and build highly scalable web infrastructure.

TECHNICAL COMPETENCIES

- **Core Languages & Runtimes:** TypeScript, JavaScript (ES6+), SQL, Python, Node.js, Bun, Hono.js
- **Frontend Engineering:** React.js, Next.js, React Native (Expo), Redux, Tailwind CSS, Framer Motion, Plate.js
- **Backend & Data Layer:** PostgreSQL, SQLite, MongoDB, Supabase, Redis, GraphQL, Drizzle ORM, Prisma
- **Cloud, Edge & DevOps:** AWS (Lambda, SQS, S3), Cloudflare Workers, Vercel, Docker, GitHub Actions (CI/CD)
- **AI & System Architecture:** LLM Orchestration, On-Device AI (LiteRT/Gemma), Edge Caching, Local-First Data, Multi-Tenant Systems, JWT Security, Microservices

PROFESSIONAL EXPERIENCE

Zignuts Technolab — **Gujarat, India**

Software Development Engineer — **August 2025 - Present**

- Architected a scalable **Multi-Tenant Creator Monetization SaaS** (Next.js, Supabase, Stripe) with strict RBAC, enabling secure artist onboarding, subscription logic, and digital asset management.
- Led frontend engineering for an **Enterprise Record Label Platform**, building high-performance UI to manage global royalties, touring logistics, and fanbase engagement across multiple sub-organizations.
- Optimized application state and data synchronization, drastically improving core web vitals and reducing client-side memory leaks in complex dashboard environments.
- Integrated agentic LLM workflows and custom prompt orchestration to automate large-scale data extraction and processing, significantly reducing administrative overhead.

Web Developer — **January 2023 - July 2025**

- Engineered a zero-trust **Financial Transaction Management System**, securely processing thousands of daily high-volume data entries with optimized PostgreSQL indexing and zero security breaches.
- Developed a real-time **Cloud Procurement Platform** utilizing WebSockets (Socket.io) and AWS, establishing a low-latency live auction environment that exponentially increased vendor participation.
- Designed robust backend infrastructure for an **EdTech Platform**, utilizing AWS SQS for asynchronous task queueing to eliminate processing bottlenecks during peak concurrent user loads.
- Executed comprehensive architectural refactoring for a legacy **Organization Management SaaS**, implementing dynamic imports and edge caching to reduce Time-to-Interactive (TTI) by over 40%.

KEY ENGINEERING PROJECTS

Temporal (On-Device AI Wealth Platform) [GitHub] | [Live]

- Engineered a privacy-first, offline financial ecosystem (**React Native, SQLite, Bun**) featuring ultra-efficient 60fps virtualization utilizing **@legendapp/list** for zero-lag infinite scrolling.
- Integrated on-device AI (**Google Gemma via LiteRT**) for offline financial parsing, and developed a **p5.js** generative art engine to visualize real-time spending velocity and net-worth trends.

Note Sync Pro (AI-Powered Content Ecosystem) [Live]

- Developed an advanced CMS leveraging **Google Gemini** for real-time semantic writing assistance and tonal consistency.
- Engineered a custom block-based editor engine (Plate.js) and deployed a stale-while-revalidate (SWR) static site generation strategy on **Next.js**, ensuring sub-millisecond edge delivery.

Expense Tracker Pro (Edge-Native Financial Intelligence) [GitHub] | [Live]

- Architected an ultra-low latency backend utilizing **Hono.js on Cloudflare Workers**, achieving sub-50ms API response times globally, integrated with **LLMs** for automated merchant string categorization.
- Ensured complete end-to-end type safety across the stack by utilizing **Drizzle ORM** with PostgreSQL and Next.js.

EDUCATION

Bachelor of Engineering in Information Technology — **2019 - 2023**

Gujarat Technological University (HGCE), Ahmedabad, India — **CGPA: 8.8/10.0**