Shubham Gautam

shubhamgautam.in | [+91 9950746862](+91 9950746862) | ishubham2101@gmail.com | linkedin.com/in/ishubham21 | github.com/ishubham21

EXPERIENCE

Senior Software Engineer — Apr. 2025 – Present
Headout — *Bangalore, India*

- Built **Dex Studio** (Next.js, TypeScript, Zustand), an internal platform for AI-guided audio tour creation used by 20+ content editors to publish multi-language tours.
- Architected a **multi-track audio timeline editor** (Web Audio API, Tone.js) with **60fps playhead sync** and buffering optimizations; supports seamless preview of 50+ section tours with keyboard-accessible controls.
- Built bulk audio generation with **paragraph-level hashing**, reducing **TTS API costs by 25%** via partial regeneration and intelligent retry logic.
- Implemented **role-based access control, optimistic locking, and publish validation** to prevent concurrent edits and ensure content integrity across multiple distributed teams.
- Led **Design System V2** (React Native, Turborepo, Storybook): shipped token-based theming and modular component library; cut **CI build times from 4m to 30s (87% reduction)**.
- Owned frontend architecture for **homepage redesign**: implemented intent-aware personalization with **A/B-tested variants**, driving **+5.2% conversion and +3.7% CTR**.

Software Engineer — Jun. 2023 – Apr. 2025
Headout — *Remote*

- Built Headout's **loyalty program**: designed tier logic, enrollment flows, and automated retargeting campaigns; boosted **repeat booking retention by 4%**.
- Shipped **self-credit refunds**: processed **$900K+ in cancellations** in month one, retained $100K as platform credits, and reduced support ticket volume by 15%.
- Built a **multi-experience cart** with an intermediate recommendation layer, increasing **items-per-order and revenue by 3.75%**.
- Designed **checkout and add-ons upsell flows**, lifting **average order value by 11%**.

Software Engineer Intern — Nov. 2022 – Jun. 2023
Headout — *Remote*

- Built a **cross-platform coupon system** (React Native Web) unifying web and mobile promotions; drove **18% increase in promo-driven retention**.
- Designed and shipped **10+ A/B experiments** (Next.js, React Native) across retention funnels; identified that 10% discount on next booking lifted **conversion by 7%**, leading to permanent flow change.

TALKS & ACTIVITIES

- Speaker at **React Summit 2025** (Parallelism in React) & **React Day Berlin 2023** (Web Storage APIs)
- Top 50, Google Solution Challenge | Finalist, Smart India Hackathon 2022 | Fellow, Major League Hacking 2021

PROJECTS

Sumedha | *TypeScript, PostgreSQL, Prisma, Docker, React* | Link — Jun. 2020 – Jul. 2020

- Built a dual-platform PWA enabling parents to track holistic child development through **AI-guided yoga (PoseNet)**, cognitive quizzes, and milestone tracking.
- Architected REST API with **role-based access** (parent/child/admin) and **Postgres multi-tenancy**; containerized services with Docker for deployment.

OSlash Backend Clone | *TypeScript, Node.js, PostgreSQL, Redis, Prisma* | Link — May 2023 – Jul. 2023

- Built a REST API for workspace-scoped URL shortcuts with **Redis caching (sub-50ms lookups)**; implemented **stateful auth using HTTP-only cookies** with CSRF protection.
- Designed **multi-tenant architecture** with row-level security in Postgres; containerized services (Postgres, Redis) with Docker Compose.

EDUCATION

Rajasthan Technical University — Kota, India
Bachelor of Technology (Information Technology) — *May 2019 – Jun. 2023*

TECHNICAL SKILLS

Frontend: JavaScript, TypeScript, React, Next.js, React Native, Tailwind CSS, Accessibility (WCAG)
State Management: Zustand, Redux, TanStack Query, Context API
Tooling & Testing: Webpack, Vite, Turborepo, Jest, React Testing Library, Storybook, Rollup