

# Shubham Gautam

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## EXPERIENCE

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### 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

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- 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

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### 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

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### Rajasthan Technical University

Kota, India

Bachelor of Technology (Information Technology)

May 2019 – Jun. 2023

## TECHNICAL SKILLS

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**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