

Supratik Chakraborty

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EDUCATION

West Bengal University of Technology

B.Tech (Bachelor of Technology) in Information Technology; CGPA: 9.11

Jul. 2019 – Aug. 2023

Kolkata, India

EXPERIENCE

Software Engineer

Mar. 2024 – Present

Trumio

Remote

- Architected **microfrontend platform** with Module Federation and **RBAC-based UI composition** for **5 enterprise customers (500+ users)**; reduced manual onboarding steps by **75%** via zero-touch configuration.
- Built **analytics dashboards** with strict tenant isolation, optimizing frontend data fetching, caching, and rendering for managerial reporting; minimized report load time by **90%** with **zero compliance violations**.
- Developed **AI interview platform** with **VAPI** integration, real-time transcription UI, and **in-browser proctoring** with **buffering** and **low-latency streaming**; achieved **sub-300ms** transcription latency.
- Designed **analytics tracking system** integrating Google Analytics and Hotjar with schema validation, rate limiting, and fault tolerance; increased trackable user events by **3x** (8 to 25+) across platform surfaces.
- Orchestrated end-to-end workflow for processing **200–300 PRs monthly**, delivered review dashboards with PII masking; lowered weekly review time by **50%** (6+ hours to under 3) while eliminating compliance risk.
- Owned frontend delivery for **10+ production releases** with bi-weekly deployments; improved observability and rollback readiness, reducing post-release hotfixes by **50%** (3–4 to 1–2 per cycle).
- Led **frontend performance optimization** across dashboard surfaces, applying bundle splitting, render optimizations, and memoization; improved Lighthouse performance scores by **26%** (62 to 78) and optimized TTI.
- Initiated **40+ component design system** distributed as npm package; improving **UI consistency** and optimizing average component development time by **50%** (4+ hours to under 2) for internal teams.
- **Tech Stack:** React, TypeScript, Vite, Tailwind, Zustand, Recharts, Storybook, Jest, RTL, FastAPI, Git

Founding Engineer (SDE-1)

Oct. 2023 – Mar. 2024

Reunion

Mumbai, India

- Engineered **risk intelligence search platform** with multi-parameter filters and **URL-encoded state** for shareable queries; reduced repeated search setup time by **60%+** and implemented freemium pricing-based UI.
- Introduced **Redux** for centralized state management and integrated **Keycloak** for authentication, enabling consistent state handling and role-based access across the platform.
- **Tech Stack:** React, Gatsby, Redux, React Query, JavaScript, Keycloak, Python, RabbitMQ.

PROJECTS

Hirevine (hirevine.vercel.app)

github.com/deagleSC/hirevine-meta

- Designed **AI-native hiring automation platform** with **org-scoped multi-tenant architecture**, resume ingestion, customizable async processing pipeline, and **LLM-generated multi-stage** candidate workflows.
- Built **AI chat-based customization** converting recruiter prompts into structured hiring pipelines in under **10s**.
- Implemented recruiter and candidate portals with **pipeline analytics**, **JWT-based auth**, **event-driven async processing**, and automated end-to-end evaluation flows from submission to final report generation.
- **Tech Stack:** Next.js, React, TypeScript, Express, MongoDB, Inngest, OpenAPI, Vercel Blob, OpenRouter, Vercel.

RentFit AI (rentfit-v1.vercel.app)

github.com/deagleSC/rentfit-meta

- Architected **AI-driven rental search platform** ingesting **1000+ live listings** with **structured tool orchestration**, faceted filters, and source-linked responses to improve answer reliability and search precision.
- Engineered **real-time conversational discovery platform** with **token-streaming chat**, persistent sessions, and synchronized map-list state; achieved **sub-500ms** first-token latency and geo-search interactions.
- **Tech Stack:** Next.js, React, TypeScript, Express, MongoDB, Vercel AI SDK, OpenRouter, MapLibre GL, Vercel.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, Python, SQL, C++

Frameworks & Libraries: React, Next.js, Vite, Zustand, Redux, React Query, Jest, RTL, Node.js, FastAPI, MongoDB

Platforms & Tools: Vercel, Git, GitHub Actions, Docker, Linux, Azure, OpenAPI, JWT, Lighthouse