

# Rajat Mehra

AI-native Full Stack Engineer with 3+ years of experience

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## Skills

**Frontend:** React, Next.js, Tauri, Typescript, Javascript, Redux Toolkit, Zustand, TanStack Query, Motion

**UI & Styling:** CSS, Styled-components, AntDesign, Tailwind, shadcn/ui, Radix, MUI

**Testing & Automation:** Jest, React Testing Library, Playwright, n8n, Applied AI

**Backend & APIs:** Node.js, Express, REST APIs, Python, Fast API

**Databases:** MySQL, MongoDB, Supabase

**Cloud & Tooling:** AWS (S3, ECS, Lambda), Docker, Vercel, Netlify

## Work Experience

**Wednesday Solutions, Pune**

Sep 2022 - Sep 2025

### Software Engineer

- Spearheaded the migration of a large **Next.js** marketplace from **CSR to SSG**, enhancing **Lighthouse** scores from **~30** to **90+**, improving SEO traffic and added internationalization support using **i18n** and **LinguiJS**.
- Designed and scaled reusable React component libraries across **micro-frontend applications**, enforcing accessibility patterns and achieving **100%+ WCAG** compliance through audits.
- Built a **fintech dashboard** using **TanStack Query** for real-time data fetching, caching, and performance-driven charts across campaign insights.
- Maintained **90%+** unit test coverage using Jest and React Testing Library and implemented **Playwright E2E testing** for critical user flows
- Implemented **Sentry** and **Lighthouse CI** monitoring, decreasing error rates by **30%**.
- Built a **Slack bot** using **Python**, **Fast API** with AI-driven workflows and automated WordPress deployment, reducing campaign setup time from **2 days** to **~15 minutes** and scaling output **10x** with human QA.
- Designed and deployed an automated pipeline integrating **n8n**(orchestration), **Firecrawl**(multi-source scraping), and Claude, reducing product validation time from **3-5 weeks** to **<10 minutes**.
- Built a **competitive insights workflow** using **n8n** and **Serper API** that scrapes and analyzes Reddit, Quora and forum discussions, enabling weekly feature-gap discovery and improved roadmap prioritization.
- Led design and documentation **TRDs** for internal tools & workflows and mentored junior peers on react best practices and code quality standards, resulting in **70%** reduction in production bugs and faster feature delivery timelines.

**Crypto Owl, Remote**

Feb 2022 - Apr 2022

### Software Engineer

- Developed and deployed 3 crypto websites, enhancing UX and driving **10K** monthly active users while achieving **100%**
- Built a realtime **analytics dashboard** using **Recharts** for visualisation, enhancing monitoring of live cryptocurrency coin and enabling users to make informed decisions.

## Projects

### Rundownly

- Built a **~5 MB** cross-platform desktop app using **Tauri 2**, **Rust**, **Next.js** with real-time video summarization, clickable timestamps, and 11-language support. Architected local-first to eliminate cloud-proxy dependencies.
- Reimplemented YouTube's Innertube transcript API in async Rust (reqwest + tokio), replacing a Node.js library with a native Tauri backend for direct transcript extraction.

### Youtube Transcript API

- Built and maintain an **open-source JS/TS npm library** for YouTube transcript extraction, supports multi-language translation and multiple output formats with no API keys or browser automation required, gaining **400+** weekly downloads across AI/NLP and content analysis pipelines.

## Education

**DIT University**

Batch of 2019

B.Tech in Computer Science and Engineering