

# PRATEEK RAWAT

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## PROFESSIONAL SUMMARY

Senior Frontend Engineer with 5+ years of experience building and scaling React-based web applications for a US-based B2B SaaS platform. Proficient in React core fundamentals — Virtual DOM, component lifecycle, JSX, hooks, and Redux — with a strong focus on designing reusable, maintainable component architectures that perform consistently across browsers and devices.

Experienced in collaborating with UX/UI designers to translate design specifications into polished, accessible interfaces. Skilled in frontend performance profiling, browser-based debugging, Jest-based testing, and applying OWASP security principles across client-side implementations. Consistently thinks at an architectural level — identifying what needs improvement and defining what comes next for the platform.

## EXPERIENCE

### Ziptyne Inc. • US-Based Digital Adoption SaaS Platform • New Jersey, USA (Remote)

#### Senior Frontend Engineer

Jan 2023 – Present

- Architected and implemented reusable React component systems — applied deep understanding of Virtual DOM, component lifecycle optimisation, and JSX patterns to ensure consistent rendering performance and maintainability at scale.
- Collaborated closely with UX/UI designers to translate design specifications into responsive, cross-browser-compatible interfaces — ensuring pixel-accurate implementation, accessibility compliance, and seamless experience across browsers and devices.
- Designed and built a reusable rich text editor component leveraging the HTML Canvas API — handling custom rendering, text layout, and interactive editing behaviour — integrated across multiple surfaces of the product.
- Architected and rebuilt the Creator and Player Chrome Extensions from scratch — content script injection, cross-iframe messaging, background service workers, and shadow DOM rendering across SPAs, multi-page apps, and iframe-heavy enterprise environments.
- Designed and published an internal npm package for stable element selector generation — handles dynamic class names, shadow DOM trees, slot elements, and iframe contexts — reducing guide breakage in dynamic enterprise applications from multiple occurrences weekly to near-zero.
- Conducted formal PR reviews, enforced coding standards, and applied OWASP security principles including XSS prevention, input validation, and secure REST API communication across all frontend implementations.
- Onboarded and mentored junior engineers; authored technical documentation covering component architecture, integration workflows, and development standards for multiple product teams.

#### Frontend Engineer

Jul 2021 – Dec 2022

- Designed and built a React-based management dashboard — modular, reusable components for user management, analytics, product configuration, and integrations, with performance profiling via browser DevTools to eliminate rendering bottlenecks.
- Revamped the end-user Player UI — optimising component re-renders, improving load performance, and ensuring cross-browser compatibility; now used by 1,000+ end users across enterprise deployments.
- Expanded into full-stack development — shipped backend features using Node.js, Express, TypeORM, and PostgreSQL, including a webhook-based integration pipeline connected to Slack and Microsoft Teams.
- Set up Bitbucket CI/CD pipelines across all environments, reducing manual release effort and minimising production errors significantly.

#### Software Engineer Intern

May 2021 – Jun 2021

- Redesigned the company marketing website reducing codebase by 40%; rebuilt the core flow template used across all client accounts and integrated real-time dashboards with live backend APIs.

## PROJECTS

### JobFit — AI Resume ↔ Job Description Analyzer

2026

Next.js • TypeScript • Anthropic API • Zod • Tailwind CSS

[Live Demo](#) [GitHub](#)

- Built and deployed a stateless AI tool that extracts structured data from PDF resumes and job descriptions using Claude's structured outputs with Zod validation, computes a weighted skill-match score, and streams AI-generated suggestions live via SSE.
- Implemented a BYOK architecture — API keys stored client-side in sessionStorage, transmitted via a custom header, and used to instantiate a scoped server client per request — ensuring zero server-side key persistence on a publicly deployed tool.
- Engineered an honesty constraint into the LLM prompt pipeline preventing skill fabrication; this safeguard independently caught and corrected a matching-engine bug before it surfaced as a false suggestion.

### Stable Selector Engine — Internal npm Package

2023

JavaScript • Shadow DOM • Chrome Extensions • Playwright

- Production-grade package generating stable, dynamic-resistant element selectors across complex DOM environments — shadow root trees, slot elements, nested iframes, backward-compatible fallback logic. Adopted across all product surfaces.

### ZipRPA — Cloud Test Automation Platform

2022 – 2023

Electron.js • React • Playwright • Jest • TypeScript • Node.js

- Built end-to-end as a desktop app independently, then led team migration to cloud — scheduled test execution, data-driven testing, Jest assertions, and HTML report generation without local machine dependency.

## EDUCATION

### Bachelor of Engineering – Computer Science & Engineering

2017 – 2021

ITM Universe, Vadodara, India

- Annual merit scholarship for sustained top academic performance. Published research paper on ReactJS in the International Journal of Innovative Science and Research Technology (IJISRT).

## SKILLS

|            |                                                                                                                            |
|------------|----------------------------------------------------------------------------------------------------------------------------|
| Frontend   | React, JavaScript (ES6+), TypeScript, JSX, Virtual DOM, Redux, HTML5, CSS3, SASS, Material UI, Tailwind CSS, Vite, Webpack |
| Testing    | Jest, Mocha, Playwright, Browser DevTools, Performance Profiling, Cross-browser Debugging                                  |
| Extensions | Chrome MV3, Content Scripts, Shadow DOM, Cross-frame Messaging, HTML Canvas API                                            |
| Backend    | Node.js, Express, TypeORM, PostgreSQL, REST APIs, Firebase, Webhooks                                                       |
| Security   | OWASP Principles, XSS Prevention, Input Validation, Secure API Communication                                               |
| Tooling    | Electron.js, AWS EC2, Bitbucket CI/CD, Git, Bash, Anthropic API                                                            |