

# Sachin Satish Prasad

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Frontend Engineer (4+ yrs) specializing in React, TypeScript, Redux & Jotai, building data-heavy UIs with Carbon Design System and interactive charts (Highcharts/D3). Focused on performance, accessibility, and robust testing (Jest/RTL) to ship secure, scalable, and user-centric apps.

## Technical Expertise / Skills

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**Languages:** JavaScript (ES6+), Typescript, HTML, CSS, Java.

**Frameworks & Libraries:** React, Redux, Jotai, React Router.

**Styling:** Tailwind CSS, CSS Modules, Material UI, Carbon Design System (React).

**Data Visualization:** D3.js, Chart.js, Highcharts

**Performance & Quality:** Lighthouse, Core Web Vitals, Webpack/Vite, code-splitting, bundle analysis, lazy loading, memoization.

**Testing:** Jest, React Testing Library

**DevOps / CI:** Git, GitHub, GitHub Actions, Jenkins, Docker (dev)

**Backend Familiarity:** REST APIs, Spring Boot, auth (JWT/OAuth2)

## Experience & Research Activities

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**Software Engineer - Front End, Stronghold Investment Management, India** August 2025 - Present

- Building an application that helps petroleum engineers explore oil & gas wells (per-well profiles, production history, and forecast views).
- Implemented Carbon Design System components, Jotai and route-level code splitting for state for fast under large datasets.
- Delivered interactive charts and maps for production trends and forecast scenarios using Highcharts based utilities
- Co-designed API/streaming contracts with backend; unified optimistic UI + loading/empty/error states across features.
- Drove UI quality with Jest + React Testing Library, story-based visual review, and accessibility checks.

**Front End Developer, Qdata Inc, Little Elm, TX** January 2024 - April 2025

- Designed and delivered full-stack web applications for 10+ small-to-medium business clients across various industries.
- Built responsive, dynamic user interfaces and scalable RESTful APIs, reducing deployment times and improving client satisfaction.
- Integrated MySQL databases with Spring Data JPA, optimizing data retrieval and ensuring high-performance backend services.
- Implemented secure authentication and authorization using Spring Security and JWT, strengthening application security across projects.
- Collaborated directly with business stakeholders to gather requirements, propose solutions, and deliver tailored software.

**Research Assistant, California State University, Chico** August 2021 - December 2023

- Developed an interactive dashboard using React, D3.js, and Chart.js for real-time visualization of graph structures.
- Built REST APIs to support backend data processing and visualization endpoints (planned upgrade to Spring Boot).
- Enabled efficient exploration of large datasets through intuitive filtering and user interactions.

**Software Engineer, Dwaipayana Technologies Ltd, India** June 2019 - July 2021

- Designed, developed, and delivered full-stack applications using the MERN stack for small-to-medium business clients.
- Built scalable RESTful APIs with Node.js and Express, improving application responsiveness and enabling seamless third-party integrations.
- Optimized MongoDB database queries and indexing strategies, reducing data retrieval times and enhancing overall system performance.
- Led end-to-end project development — from gathering client requirements to architecture design, implementation, deployment.
- Mentored 3 junior developers, promoting best practices in full-stack development and improving overall code quality within the team.

## Education

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**California State University, Chico** Dec 2023  
Master of Science in Computer Science

**Visvesvaraya Technological University** July 2020  
Bachelor of Engineering in Information Science