

# PRAVEEN KUMAR MADDELA



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Gender Male

Nationality Indian

Date of Birth 01/07/1996

## SUMMARY

Senior Frontend Engineer with **around 7 years** delivering scalable, component-driven products using **React.js**, **Next.js**, **TypeScript/JavaScript (ES6+)**, and the **MERN** stack. Expert in **performance optimization**, **responsive UI**, **SSR/SSG** (Next.js), and secure API integrations. Hands-on with **AWS** (S3, CloudFront, Lambda, API Gateway) and **Azure** (App Service, Storage, CDN); ship reliably with **GitHub Actions/Jenkins** and **Docker** for CI/CD. Built **testing pipelines** using **Jest**, **React Testing Library**, and **Cypress** with quality gates. Practical integration of **Generative AI/LLMs** (OpenAI/Vertex), **RAG**, and prompt-engineering in web features. Advocate for **accessibility** (WCAG, ARIA, keyboard navigation) and **Web Vitals**. Led squads (2–6), owned end-to-end delivery from UX handoff to production, and shipped **React Native** apps for iOS/Android.

## WORK EXPERIENCE

Dec 2022 – April 2025

**Software Engineer | OPTUM (UNITEDHEALTH GROUP),**

Project: **Prior Authorization System (Insurance) | Client: Internal (Own Product) | Team Size :20.**

- Built and maintained **React/Next.js** component libraries and templates; converted legacy CMS modules to reusable React and translated **Figma** designs into pixel-perfect, responsive UIs.
- Boosted **Core Web Vitals ~30%** via **code-splitting**, **lazy loading**, **memoization**, **image/CDN tuning**, **CSS optimization**; implemented **SSR/SSG/ISR** in Next.js for faster TTFB/SEO.
- Implemented **state management** with **Redux Toolkit**, **Redux Thunk**, **Redux-Saga**; complemented with **React Query/TanStack** for server-state, caching, and offline-tolerant flows.  
Established a strong **testing practice**: **Jest**, **React Testing Library**, **Cypress** (unit/integration/E2E), with **coverage thresholds**, **PR test gates**, and **parallelized CI** runs.
- Built end-to-end **CI/CD** in **GitHub Actions** (and **Docker**): matrix builds, dep caching, lint/type-check, **test** → **build** → **deploy**, env secrets, and artifact versioning; managed **AWS S3/CloudFront** and **Azure App Service** deployments (invalidation, staging slots, IAM/RBAC).
- Ensured **accessibility** (WCAG/ARIA, keyboard navigation, contrast) and reliability (error boundaries, observability hooks); led **2–6 engineers**, ran reviews/planning, and documented patterns (performance, testing, accessibility)

Aug 2021 – Dec 2022

**Systems Engineer | TATA CONSULTANCY SERVICES,**

Project: **Unified DevOps Portal (Banking) | Client: Citibank | Team Size: 20**

- Built **React.js** features and **Angular (11+)** legacy/admin modules for banking-services dashboards—data-heavy **tables**, filtering, pagination, exports, and role-based views; translated **Figma** → **pixel-accurate**, responsive components.
- Used **Redux Toolkit**, **Redux Thunk**, **Redux-Saga** for complex state/side-effects; added **React Query/TanStack** where server-state sync improved performance and UX.
- Applied **Next.js** where needed (basic **SSR/SSG** for faster first paint/SEO), focusing on reusable components and predictable routing/layouts.
- Integrated secure **REST** APIs with **JWT/OAuth**, retries/backoff, and typed clients; added **error boundaries**, logging, and lightweight observability hooks for reliability.
- Improved **Core Web Vitals** via code-splitting, lazy loading, memoization, bundle analysis, and list virtualization; enforced **WCAG/ARIA** accessibility; set up **CI/CD** with **GitHub Actions** + **Docker** and shipped to **Azure App Service**; strengthened quality with **Jest**, **React Testing Library (RTL)**, and **Karma** (legacy).

Sept 2018 – Aug 2021

Full-Stack Developer | REDIFCARD TECHNOLOGIES,

Projects: **Celebrity Booking & Moviewud.in (Media & Entertainment)** | Client: In-house Product and External Client

Projects | Team Size: 10

- Built and maintained **React.js** UIs with **HTML5, CSS3, Bootstrap**, and **JavaScript (ES6)**—clean components, responsive layouts, cross-browser support.  
Converted **Figma** designs into **pixel-perfect** React components; created reusable patterns for forms, tables, modals, and dashboards.
- Managed state with **Redux** and **Redux Thunk**, plus **Context API** for scoped state; improved rendering with memoization and selector patterns.
- Integrated **REST APIs** and tuned data UX (loading/empty/error states, pagination, sorting, filters) for **streaming** and **e-commerce** flows (catalog, cart, checkout, subscriptions).
- Contributed UI features in **Angular** and built select components in **Vue.js** to support cross-team modules and shared widgets; wrote **Jest + React Testing Library** tests for stability.
- Consultancy model under a single payroll**: delivered features for **multiple client organizations/projects**, collaborating with design/backend teams and adapting to varied codebases and standards.

EDUCATION	
2013 – 2017	Bachelor of Technology (Electronics & Communications Engineering), Jawaharlal Nehru Technological University, Anantapur, India

CERTIFICATIONS	
2025	<b>Generative AI (LLMs &amp; AI Tools)</b> – OutSkill (Issued Aug 2025)
2025	<b>React.js Developer</b> – LearnTube.ai (Issued Jun 2025)
2025	<b>React.js with TypeScript &amp; Next.js</b> – Udemy (Issued Jan 2025)
2025	<b>AWS Certified Solutions Architect – Associate</b> – Amazon Web Services
2024	<b>Microsoft Certified: Azure Developer Associate (AZ-204)</b>
2024	<b>Microsoft Certified: Azure Fundamentals (AZ-900)</b>

PERSONAL SKILLS	
Languages	English (proficient – C1/C2), Telugu (mother tongue)

KEY SKILLS	
Front-end Development	React.js 18+, Next.js 14, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Material UI, Bootstrap 5, Responsive Web Design, Accessibility Standards
AI Integration	OpenAI API, LangChain, Hugging Face Transformers, Generative AI UX, Prompt Engineering
State Management	Redux Toolkit, Redux Saga, Context API, Zustand (basic)
Backend & API Integration	Node.js, Express.js, MongoDB, REST, GraphQL, JWT Auth
Testing & Quality Assurance	Jest, React Testing Library, Cypress (Cucumber), SonarQube
Deployment & CI/CD	AWS (S3, EC2, Amplify), Vercel, Netlify, Jenkins Pipeline, GitHub Actions
Version Control & Collaboration	Git, Bitbucket
Performance & Optimization	Server-Side Rendering (SSR), Static Site Generation (SSG), Lazy Loading, Code Splitting, Web Vitals Optimization
Project Management	SAFe methodology, Adobe Experience Manager (AEM), Headless CMS (Contentful, Strapi), API Integration, Dynamic Content Management, Template Customization, SEO & Performance Tuning
Version Control & Collaboration:	Git, Bitbucket, Jira, Rally, Agile (SAFe, Scrum)
IDEs	Eclipse, Visual Studio Code
Database	MongoDB, Redis, MySQL, SQL Server

PERSONAL INTERESTS	
Hobbies & Interests	Photography, Cooking, and Volunteering