PRAVEEN KUMAR MADDELA

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Gender Male

Nationality Indian

Date of Birth 01/07/1996

SUMMARY

- **Senior Frontend Engineer (React.js | Next.js | TypeScript | AI-Driven UI)** with **7 years of experience** in building scalable, performant, and user-centric web applications.
- Expertise in **React 18**, **Next.js 14**, **TypeScript**, and **modern UI frameworks** with strong knowledge of **state management (Redux Toolkit, Context API)** and **automated testing (Cypress | Jest)**.
- Hands-on experience integrating **LLMs** and **Generative AI APIs** (OpenAI | LangChain | Google Gemini) into web products — enhancing UX through **AI-based recommendations**, **chatbots**, and **prompt-driven workflows**.
- Skilled in **RESTful API integration**, **server-side rendering**, **performance tuning**, and **CI/CD deployment** on **AWS**, **Vercel**, and **Netlify**.
- Passionate about crafting pixel-perfect, responsive UI & maintaining clean, test-driven codebases aligned with Agile & DevOps practices

WORK EXPERIENCE

Dec 2022 –April 2025   **Software Engineer | OPTUM (UNITEDHEALTH GROUP)**,

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

- Engineered **scalable UI modules** using React 18 + Next.js 13 SSR → boosted load speed by ~45%.
- Implemented **Context API & Redux** for state handling → reduced code duplication and enhanced maintainability.
- Optimized **API integration (Axios)** & used **React Query** for caching → 30% faster data fetches.
- Enhanced **test coverage (>95%)** using Jest & Cypress with Cucumber framework.
- Integrated **SonarQube** → maintained 100% clean code score and improved code review efficiency.
- Automated CI/CD via **Jenkins** pipeline → cut deployment time by 60%.
- Developed an **intelligent claim-validation interface** that **fetched user case data in real time** and leveraged **LLM models (LangChain + OpenAI)** assisted by **Copilot** → improved code-matching accuracy and reduced manual review time by 40%.

Aug 2021 – Dec 2022   **Systems Engineer | TATA CONSULTANCY SERVICES**,

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

- **Migrated multiple legacy AngularJS modules** into a **modern React.js + TypeScript architecture** → reduced bundle size by **35%** and improved maintainability.
- **Developed modular AngularJS components** (Directives, Services, and Controllers) → improved reusability and reduced redundant code.
- Built a **reusable UI component library** (TreeView, Grid, Modals) with shared styling and utility hooks → increased **UI delivery speed by 50%**.
- **Enhanced Redux state synchronization** with optimized **Axios API calls + Redux Thunk** → enabled seamless data consistency across dashboards.
- Designed **responsive SPA interfaces** using **Flexbox**, **media queries**, and **Bootstrap utilities** → ensured consistent cross-device compatibility.
  Collaborated with **QA & Automation teams** to implement **Cypress-based end-to-end testing** → improved release confidence and reduced manual regression time.
- Participated in **Agile (SAFe) ceremonies**, sprint reviews, and backlog grooming → aligned deliverables with client UX.

Sept 2018 – Aug 2021   **Full-Stack Developer | REDIFCARD TECHNOLOGIES,**
Projects: **Celebrity Booking & Moviewud.in (Media & Entertainment) | Client: Internal (Own Product) | Team Size: 10**

- Developed and maintained **modular UI components** across **React.js, AngularJS, and Vue.js** frameworks → improved scalability and cross-project reusability.
- Built **high-performance SPAs** with React and Redux middleware (Thunk & Saga) → enhanced state management and user interaction.
- Implemented **Node.js + Express.js APIs** and integrated with MongoDB → ensured secure and reliable data flow across modules.
- Optimized **API communication with Axios** and caching → boosted data-fetch efficiency and reduced load time by 30%.
- Integrated **AI-based recommendation logic** and Copilot-assisted automation → increased personalization and reduced manual effort.
- Migrated **legacy JSP modules** to modern **React and HTML5 architecture** → improved maintainability and performance.
- Deployed full-stack apps on **AWS** using Git and CI/CD pipelines → ensured stable releases and faster delivery cycles.

EDUCATION

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

CERTIFICATIONS

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

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
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
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