

# KALPESH DESALE

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## Professional Summary

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Software Engineer with 3+ years of experience developing high-performance web applications and engaging user interfaces. Skilled in React.js, TypeScript, Node.js, Express, Redux and MySQL, with expertise in front-end optimization and RESTful APIs. Experienced in maintaining code quality and implementing scalable solutions in Agile environments.

## Technical Skills

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- **Programming Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL
- **Frontend Development:** React.js, Redux Toolkit, React Router, React Hook Form, immutable.js
- **UI Frameworks & Libraries:** Tailwind CSS, Styled Components, Radix UI, shadcn/ui, Storybook
- **Testing Frameworks:** Vitest, Jest, React Testing Library, Cypress, Mock Service Worker (MSW)
- **Backend & Cloud:** Node.js, Java, Spring Boot, RESTful APIs, AWS Cloud Services, MySQL, PostgreSQL
- **Tools & Technologies:** GitHub, Bitbucket, Chrome DevTools, Webpack, Vite, Babel, NPM

## Professional Experience

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### DemandHelm

November 2021 – Present

Software Engineer

Mumbai, Maharashtra, India

- **Accelerated development efficiency by 25%** by transforming Figma designs into reusable components using React Hooks, TypeScript, and Styled Components. Developed interactive and responsive dashboards and user interfaces while managing API calls efficiently with **Redux Toolkit Query (RTK Query)**.
- Developed and published an internal NPM package of shared components and utilities, **reducing development time** by 30% and ensuring **consistent UI/UX** across applications.
- Implemented advanced data visualization features using Chart.js and Recharts, processing and displaying complex e-commerce analytics data.
- Engineered and optimized Redux state management with Redux Toolkit, improving **data consistency** across components and reducing data sync errors.
- Designed and developed a high-performance table component using TanStack Table with **virtualization**, handling 1000+ rows while maintaining smooth scrolling and responsive UI.
- Contributed to upgrading from React Router v5 to React Router v6, Moment to Date-fns. Implemented dynamic, **client-side routing** with React Router to ensure smooth navigation across multiple pages.
- Crafted pages for initiating new Amazon and Walmart campaigns. Implemented custom hooks to generate the body to be sent to Amazon and Walmart. Utilized React Hook Form and Zod to implement robust **form validations** and **error handling**.
- Established comprehensive testing infrastructure using Vitest and Cypress, reducing production bugs by 70%.
- Optimized **application performance** through code splitting and lazy loading, resulting in a 40% reduction in initial bundle size and improved Core Web Vitals scores.
- Architected and implemented scalable data integration solutions using AWS Lambda and S3, successfully automating data retrieval from Rainforest APIs and optimizing storage costs
- Built **RESTful APIs** to facilitate seamless integration between frontend applications and backend services

## Key Projects

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### DemandHelm Advertising Analytics Platform | *React.js, TypeScript, Redux Toolkit, Recharts, Node.js, Express*

- Developed a comprehensive advertising analytics dashboard processing real-time data for 1000+ Amazon and Walmart campaigns, enabling merchants to track and optimize their advertising spend.
- Implemented efficient state management using Redux Toolkit and RTK Query.
- Built interactive visualizations and bulk action components for managing campaign metrics and updates across marketplaces, improving efficiency and decision-making by 40%.
- Designed and implemented scalable backend infrastructure, developing high-performance RESTful APIs to process campaign metrics, ensuring real-time data synchronization across multiple marketplaces.

### DemandHelm Analytics Extension | *React, TypeScript, Chrome Extensions API, Node.js*

- Developed a Chrome extension that processes and visualizes real-time e-commerce analytics data.
- Implemented secure OAuth authentication flow and real-time data synchronization with backend services.
- Reduced data analysis time by 60% through automated data processing and visualization features.

### Happy Pet E-commerce Platform | *React.js, Spring Boot, AWS*

- Architected and developed a full-stack pet buying and selling e-commerce platform.
- Implemented advanced search algorithms and filters, improving product discovery time by 40%.
- Designed and optimized database schema resulting in 50% faster query response times.

## Education

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**Post Graduate Diploma in Advanced Computing (PG-DAC)**

*Infoway Technologies*

**April 2021 – October 2021**

*Pune, Maharashtra*

**Bachelor of Engineering**

*Sapkal College of Engineering*

**2016 – 2019**

*Nashik, Maharashtra*

## Professional Certifications

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- **Advanced React Development Certification** - Namaste React by Akshay Saini
- **Professional React Testing Certification** - Testing JavaScript Applications by Mosh Hamedani