RAJESH KUMAR PATTANAIK

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TECHNICAL SKILLS

React Native (Android & iOS), React JS, JavaScript, TypeScript, HTML, CSS, MongoDB, Firebase, ExpressJs, NodeJs, Windows, MacOS, Strong Communication

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WORK EXPERIENCE

JUNIOR APPLICATION DEVELOPER, BOLDTRIBE INNOVATIONS PRIVATE LIMITED   Jan 2025 - Present

1. **Navigation Design (20%):** Developed advanced, intuitive **navigation** systems using **React Navigation**, ensuring a smooth and consistent experience across **iOS and Android** for a user-friendly ticket booking and news delivery app.
2. **State Management with React Hooks (15%):** Leveraged **React Hooks (useState, useEffect, useContext)** across **React Native** and **React.js** platforms to manage local state efficiently, enhance performance, and improve code maintainability and reusability.
3. **API Integration (20%):** Integrated **RESTful APIs** using both fetch and **axios** with comprehensive error handling. Ensured real-time **data synchronization** and responsive UI behavior across both **mobile and web environments**.
4. **UI Component Development (10%):** Built scalable and **modular UI** components in **React Native and React.js**, maintaining a consistent design system and simplifying **cross-platform development** and maintenance.
5. **State Management with Redux (15%):** Used **Redux** for global **state management**, handling complex data flows and ensuring predictable, scalable transitions in large feature sets across both **mobile and web platforms**.
6. **Cross-Platform Optimization (10%):** Optimized performance and compatibility for both **iOS (Xcode) and Android (Android Studio)** using platform-specific tweaks and shared logic layers for improved efficiency.
7. **Asynchronous Operations (10%):** Improved async data handling using **async/await**, background task optimization, and smart caching, reducing **API latency** and load times under various **network conditions**.
8. **Live Location Handling & Location-Based Data Filtering:** Integrated **Google Geolocation API** in **React Native and React.js** to automatically fetch the user's current location. Based on this, **dynamically filtered data (e.g., news, events, or tickets)** is presented by **state and district**, offering personalized, hyper-local content.
9. **Topic-Based Notifications via Firebase:** Integrated **Firebase Cloud Messaging (FCM)** with **topic-based push notifications**, allowing users to receive tailored alerts based on their interests and location preferences, boosting engagement and user retention.

JUNIOR DEVELOPER, APIMAN LABS PRIVATE LIMITED   Dec 2023 - Jan 2025

1. **Navigation Design**: Developed advanced navigation structures **(20%)** using **React Navigation**, delivering a seamless experience across **iOS** and **Android** for a user-friendly ticket booking app.
2. **State Management with React Hooks**: Applied **React Hooks** (**useState, useEffect, useContext**) for efficient state management **(15%)**, improving app performance and enhancing code reusability.
3. **API Integration**: Integrated **RESTful APIs** (**20%**) using robust error handling with fetch and **axios**, ensuring real-time data updates and smooth app functionality.
4. **UI Component Development:** Built modular UI components (**10%**) for a consistent interface, optimizing scalability and simplifying development.
5. **State Management with Redux**: Leveraged **Redux** for centralized **state management (15%)**, managing complex data flows with scalable and predictable transitions.
6. **Cross-Platform Optimization**: Improved cross-platform compatibility **(10%)** by enhancing performance on **iOS** and **Android** using **Android Studio** and
7. **Asynchronous Operations**: Optimized **asynchronous operations** and **API handling** (**10%**) in **React Native**, reducing load times across various network conditions.

PROJECTS

NEWZTOK MEDIA SOLUTIONS

Managed roles and permissions (20%) by defining three main roles—Super Admin, Company, and User—with sub-roles (Journalist, Content Moderator, Editor, Admin) to ensure controlled access within the news publishing workflow.

1. **Role-Based Access Management (20%):** Developed and managed a dynamic role-based access system for **NewzTok Media Solution**. On the **web app (React.js)**, roles include **Admin, Editor, Journalist, and User** for controlled content creation, review, and publishing workflows. On the **mobile app (React Native for Android & iOS)**, roles are streamlined to **Journalist and User**, focusing on mobile content posting and engagement.
2. **Integrated Tech Stack**: Built a backend with a **REST API**, used **Redux** for state management, applied React Native AsyncStorage for local data storage, integrated **Firebase for push notifications**, and optimized navigation with **React Hooks** and **React Navigation**.

3. **Content Monitoring System (30%):** Implemented **real-time content** monitoring and moderation features with route-based and **role-specific permissions** to control publishing rights and maintain content quality across regions.

4. **Integrated Tech Stack:** Built cross-platform apps using **React Native** (**Xcode for iOS and Android Studio for Android**) and a web app in **React.js**. Used **Redux** for state management, **AsyncStorage** for local data handling, and **React Navigation** with **React Hooks** for seamless navigation.

5. **Topic-Based Notifications via API:** Integrated **Firebase Cloud Messaging (FCM)** for **push notifications**, using a custom **backend API** to **manage topic-based subscriptions**. This enables targeted news alerts based on user preferences and locations, enhancing user engagement and relevance.

6. **Location-Based News with Auto Detection:** Implemented **automatic location detection** using the **Google Geolocation API** across both **React Native and React.js platforms**. News is **dynamically filtered** and shown at the top of the feed by **state and district**, giving **users instant access to hyper-local content tailored to their current location**.

BoldEats

1. **Role & Responsibilities at BoldEats**
- **Managed Roles and Access Control (20%):** Defined and implemented core roles—**Admin, Vendor, and User—to control platform access**. Sub-roles like **Order Manager** and **Subscription Handler** enabled precise task delegation across the **food ordering and catering service**.
- **Admin Dashboard Development (30%):** Developed the **Admin Panel** to **monitor** and **manage platform data**, including:
  - **Total number of vendors.**
  - **Number of subscribed users.**
  - **Real-time order counts and revenue tracking.**
- **User Panel Development (30%):** Built a comprehensive **User Panel** for:
  - **Placing one-time catering orders**.
  - **Managing 15-day and 30-day food subscriptions with intuitive UX.**

Tech Stack Integration (20%): Engineered the backend using **REST APIs**, managed application **state with Redux**, utilized **localStorage for client-side** data persistence, and optimized **user navigation** and component interactions using **React Router** and **React Hooks**.

BoldServe

Led Full-Stack Development for Office Stationeries & IT Support Platform: Designed and implemented both **Admin** and **User** Panels—the **Admin Panel** includes **vendor creation, enrollment tracking, user and order management, and revenue analytics**; while the **User Panel supports features like IT support requests, stationery/printing demands, and meeting room bookings**. Utilized **React JS, Redux, localStorage, React Router, and REST APIs** to deliver a seamless, scalable **web experience.**

TRIP CHALLAN BOOK (TCB)

Managed roles and permissions (20%) by defining three main roles—Super Admin, Company, and User—with sub-roles (Driver, Computer Operator, Guard, Admin) for controlled access in truck loading operations.

1. **Loading Monitoring**: Monitored vehicle loading processes (30%) for materials like iron and steel, implementing route-specific permissions to manage loading updates.

2. **Integrated Tech Stack**: Built a backend with a **REST API**, used **Redux** for state management, applied React Native AsyncStorage for local data storage, integrated **Firebase for push notifications**, and optimized navigation with **React Hooks** and **React Navigation**.

ONLINE SHOPPING APP (OSA)

1. **Redux for Cart Management:** Utilized **Redux** for state management (25%), allowing users to seamlessly add, remove, and manage products in the cart, facilitating smooth data flow.

2. **API Integration**: Integrated **RESTful APIs** (30%) to fetch and display product listings in real-time, keeping product information up-to-date.

3. **Enhanced State Management**: Implemented **CRUD operations** with **React Hooks (useState, useEffect)** (30%) for effective product filtering, sorting, and cart actions, boosting performance and responsiveness.

ONLINE VIDEO TUTORIAL LIBRARY (OVL)

Developed a video library app (50%) with admin functionalities for uploading, editing, and deleting videos, using REST APIs for secure video management and React Hooks for efficient state handling.

1. **Navigation and Session Management**: Employed **React Router (BrowserRouter, Route, Routes)** and **Redux (50%)** to ensure seamless navigation and secure user sessions, allowing users to register, log in, and access content smoothly.

EDUCATION

Mastering in Computer Application (MCA)   **Nov 2021 - Sept 2023**
- NIIS Institute of Business Administration, Biju Patnaik University of Technology(BPUT)