NIRAJ KUMAR

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PROFESSIONAL SUMMARY

- 4 years of experience in building responsive and scalable web applications using React and Javascript, with a focus on performance optimization and clean architecture.

- Proficient in React functional components with Hooks, Redux for state management, and experienced with class components, including lifecycle methods.

- Skilled in creating and integrating RESTful APIs and implementing WebSocket for real-time data communication.

- Strong problem-solving skills with hands-on experience in developing new features from scratch and enhancing existing systems.

- Certified in Python, NumPy, Pandas, and SQL, with a solid understanding of data-driven application development.

SKILLS

Programming Languages: JavaScript, TypeScript, Python

Web Technologies : React, Next.js, JQuery, Redux, Context API, React hooks, Webpack, Microfrontend, Jest, Vitest, Chart.js, Material UI, Bootstrap, Tailwind CSS, HTML, CSS, Fast API, SQL

GIS Technologies : OpenLayers, Geoserver, Posgis, Postgresql

API Back-End Integration : WebSocket, RESTful APIs, Postman, Swagger

Software Tools:Chrome DevTools, VS Code, GitHub, Git, Jupyter Notebook, Docker

Data science Libraries : NumPy, Pandas, Matplotlib, Seaborn, scikit-learn

EXPERIENCE

Techmologics Innovations Private Limited   **July 2021 – Present**
Software Engineer   *Hyderabad, Telangana*

CPMS (Charge Point Management System)
React JS, react-i18next, JavaScript, JQuery, HTML, Tailwind CSS, Material UI, Agile, Git

- Developed a scalable React application using class-based components, optimizing state management and improving maintainability.

- Developed multi-language support system using react-i18next.

- Implemented RESTful APIs to enable seamless integration between the server-side and client-side, ensuring efficient data exchange and enhanced application performance.

POSILINK
React JS, Function Component, Redux, Axios, JavaScript (ES6+), HTML, CSS, Ant Design, Bootstrap, Vitest

- Designed and implemented interactive, responsive user interfaces, enhancing user engagement by 30%

- Developed a multi-user role application with 10 distinct user levels, implementing robust role-based access control (RBAC) to ensure proper permissions for each role.

- Integrated FusionCharts to create interactive and visually appealing data visualizations, enhancing user engagement and providing actionable insights.

- Optimized API requests using Axios and Fetch, reducing response times by 20%, improving data retrieval efficiency.

Skylink
Next.js,React JS, Redux, TypeScript, SSR, ISR, SSG, HTML, CSS, Material UI

- Migrated legacy class-based code to Next.js, implementing Redux for centralized state management.

- Refactored components to use Material UI and CSS, ensuring modern, responsive UI design.

- Ensured compatibility during migration, resolving dependency issues for seamless functionality.

- Optimized performance by streamlining Next.js code, reducing load times by 15%.

Agri Tech
Next.js,React JS, Tailwind CSS, TypeScript, Redux, HTML, FastAPI, SQLAlchemy, Pydantic, GeoServer, OpenLayers, PostgreSQL, PostGIS, AWS S3 buckets, Matplotli

- Designed and implemented an interactive map interface with mark/edit functionality, search capabilities, zoom controls, and geolocation to help farmers locate and manage their farmland.

- Implemented a component and service-based architecture to structure the application efficiently.

- Built and maintained a robust API service architecture to streamline multi-user role functionalities, ensuring high scalability and reducing development overhead by 15%.

- Built a dynamic comparison page for vegetation indices, enabling farmers to assess crop health through intuitive visualizations.

- Developed time-series graphs to display crop growth trends across different time ranges using vegetation indices data.
- Created APIs to interface with Microsoft Planetary Computer's Data API, retrieving vegetation indices data based on specified coordinates and date ranges.
- Engineered Python scripts to integrate with GeoServer, managing and storing vegetation indices layers in designated workspaces.
- Developed APIs to process Sentinel-2 satellite data, convert it into images using Matplotlib, and store them in AWS S3 buckets.
- Built APIs to support the comparison of vegetation indices and generate time-series data for crop monitoring.

COURSEWORK AND CERTIFICATION

- UI Full Stack BY Naresh I Technologies Hyderabad
- SQL By Scaler
- SQL By Hacker Rank

EDUCATION

Vedica Institute Of Technology   **2016 – 2020**
Computer science and engineering (CSE)   *Bhopal*