Ravi Pratap Singh

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Education

Indian Institute of Technology Varanasi	**July 2017 – June 2021**
Bachelor of Technology in Chemical Engineering; Grade: 8.13 CGPA	*Varanasi, Uttar Pradesh*

SDDT Inter College	**June 2014 – March 2016**
Central Board of Secondary Education; Grade: 83%	*Gorakhpur, Uttar Pradesh*

Experience

AiDash - Bangalore	**April 2021 – Present**
Software Engineer (SDE 2)	*Onsite*

Technical Innovations and Optimisations

1. Implemented comprehensive performance optimizations in web application, including dynamic code splitting for 45% faster page loads, aggressive lazy loading of components, memoization of costly computations via useMemo/useCallback, image compression to reduce payload size by 80%, and bundle size optimization through chunk splitting - resulting in 60% reduction in initial load time.
2. Enhanced the development of AidashMap, a map component built with Mapbox, React, and TypeScript. This innovation allows developers to create highly configurable multi-layered maps with significantly less code, dramatically improving development efficiency.
3. Conceptualized and implemented Server Driven UI along with Intelligent Components, significantly reducing development effort and increasing code maintainability.
4. Developed custom solutions for tables, map views, and filters, resulting in improved responsiveness and accelerated development speed.

Product Development and Leadership

1. Played a pivotal role in the development and maintenance of IVMS, Aidash's flagship product, managing over 100 B2B clients and ensuring seamless functionality.
2. Collaborated closely with product managers, engineering managers, and back-end teams to define requirements, timelines, and API contracts for front-end tasks.

Configurability Enhancements

1. Architected and implemented a tier-level configurability framework, enabling dynamic adjustments of actions, fields, and features based on client tier.
2. Developed a flexible page design configuration system, allowing for rapid updates to page layouts through simple configuration changes.
3. Introduced advanced feature toggle configurability, empowering selective display of multiple UI elements, facilitating agile responses to changing requirements.

Testing and Quality Assurance

1. Spearheaded the integration of Cypress for End-to-End (E2E) testing.
2. Enhanced ESLint configurations to ensure consistent code quality and adherence to best practices across the development team.
3. Achieved a 100% increase in UI test coverage, significantly reducing the likelihood of regressions and enhancing overall software stability and reliability.

Skills

- **Experienced**: JavaScript, React.js, Mapbox, C++
- **Intermediate**: TypeScript, Material UI, React Query, Redux, Python, SQL, Git, Ag-Grid, HTML, CSS
- **Coursework**: Data structure and algorithms, Operating systems, Database management system, Object oriented programming