

Ravi Pratap Singh

Software Engineer (SDE 2) | React/TypeScript Specialist

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Summary

Software Engineer with **4.5+ years** at **AiDash** building **enterprise SaaS** platforms. Specialized in **React** development and **geospatial visualization**. **Architected** a **Server-Driven UI** framework and delivered solutions serving **100+ B2B clients**. **IIT (BHU) Varanasi** graduate with strong foundations in algorithms and **scalable system design**.

Education

Indian Institute of Technology (BHU) Varanasi	July 2017 – June 2021
Bachelor of Technology in Chemical Engineering; CGPA: 8.13/10	Varanasi, Uttar Pradesh
SDDT Inter College	June 2014 – March 2016
Central Board of Secondary Education; Grade: 83 percent	Gorakhpur, Uttar Pradesh

Technical Skills

Languages: JavaScript (ES6+), **TypeScript**, C++, HTML5, CSS3, SQL, Python

Frontend: **React.js**, **Redux**, React Query, Material-UI, **Mapbox**, AG-Grid, **Next.js**, Tailwind CSS, Radix UI

Tools & testing: Git, Jenkins, **Cypress**, **Jest**, React Testing Library, ESLint, Webpack, **CI/CD** pipelines

Experience

Software Engineer (SDE 2)	April 2021 – Present
AiDash	Bangalore, India

IVMS—AiDash flagship **enterprise** vegetation management platform serving **100+ B2B** clients.

Impact and scale

- Built **multitenant enterprise** platform serving **100+ utility** company clients with configurable workflows and a reusable component library; implemented **hybrid state management** using **Redux-Saga**, **Easy-Peasy**, and **React Query** across **10+ feature modules**
- Led React** upgrade and **codebase modernization**: upgraded React to v17.0.2 and react-scripts to v5.0.1, applied compatibility and JSX config fixes, updated dependencies, and resolved **387 TypeScript** errors from stricter compiler settings for a stable **production** build

Key technical achievements

- Enhanced **AiDash Map**, a custom **Mapbox + React** component with highly configurable multilayered maps for complex **data visualization**
- Led end-to-end** development of a **Server-Driven UI (SDUI)** framework with intelligent components, reducing effort and improving maintainability
- Implemented **AG-Grid Enterprise** with **server-side row model**, advanced filtering, and state persistence for **large datasets**

Testing and quality assurance

- Improved testing and quality by integrating **Cypress E2E**, increasing **UI test coverage**, and reducing regressions; enabled **TypeScript strict mode**, tightened **ESLint**, improved **Jest** and **React Testing Library** setup, and expanded **CI/CD automation**

Projects

AI Gmail Organizer & Developer Portfolio	Personal
Full-stack personal project	portfolio-one-sand-82.vercel.app

Stack

- Frontend:** **Next.js 15**, **React 19**, **TypeScript**, Tailwind CSS, Radix UI. **Auth:** **NextAuth** with **Google OAuth** and Gmail scopes. **Backend:** **Express** + **TypeScript** using the **Gmail API** (googleapis).

Product

- LLM-based** email categorization with a **rules engine**, **batched AI** calls, and automated Gmail labeling; **async jobs** with job IDs; live progress via **Server-Sent Events (SSE)** and client recovery after refresh