

Shashi Bhushan Kumar Tiwari

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Skills

Languages: JavaScript, TypeScript, SQL, GraphQL, Java

Frameworks & Libraries: React.js, Next.js, Express, Jest, Cypress

Tools & Technologies: Node.js, Docker, Firebase, Git, GitHub, Visual Studio Code, Postman, Chrome DevTools, Figma

Database: MongoDB, MySQL, DynamoDB, Firebase Realtime Database, PostgreSQL

Professional Experience

Drishya AI

Bangalore, KA

Frontend Engineer

March 2022 - Present

- **Backend Transition: AWS to PostgreSQL & GraphQL-REST Server:** Built a GraphQL-REST hybrid server and defined PostgreSQL schemas using TypeORM. Connected an Azure adapter to streamline data transfer, leading to a **40% improvement** in query performance and consistency.
- **Knowledge Graph Validation System:** Delivered a full-stack solution using React, Bootstrap, Node.js, DynamoDB, AWS Lambda, and Amplify, cutting validation time by **50%** per object and increasing system throughput.
- **Internal Digitization Tool:** Engineered an annotation system using Dockview, React-PDF, and custom modules to extract precise data and generate structured outputs from datasheets.
- **Image Processing Platform:** Architected an automation pipeline using React, AWS Lambda, S3, DynamoDB, and pub-sub messaging to produce multiple rule-based image variants with minimal user interaction.
- **Repo Code Refactor:** Overhauled multiple internal repositories by applying the **Separation of Concerns** principle, modularizing code for better scalability and maintainability. Replaced prop drilling with **Zustand** and introduced an **instance-based store architecture** to prevent data leaks across components. Migrated to **TypeScript** for better type safety and added robust unit tests, resulting in **cleaner code, faster onboarding, and fewer integration bugs**.
- **P&ID Annotation Tool:** Contributed to a React-based UI for plotting and validating JSON data within P&ID workflows, enhancing consistency and speeding up annotation. Incorporated Jest for component/unit testing, leading to a **60% improvement in digitization speed**.
- **Customized Grid Component:** Engineered a reusable, zero-setup grid using react-data-grid to render structured JSON data. Included features such as automatic column generation, row and column deletion, inline editing, filtering, sorting, and CSV/Excel export. Adopted in over 10 internal repositories at **Drishya.ai**, the component eliminated redundant presentation logic, reduced code duplication, and significantly improved code readability and developer efficiency.
- **Reusable Library & CI/CD Pipeline:** Published the internal annotation tool as a modular, tree-shakable shared library, enabling efficient reuse across multiple Git repositories while reducing bundle size and improving performance. Implemented a CI/CD pipeline to automate testing, versioning, and deployment, ensuring consistent, reliable, and maintainable delivery across all consuming projects.

Datoin

Bangalore, KA

Frontend Intern

May 2021–March 2022

- As a front-end intern, developed responsive web interfaces using React, integrated APIs, and back-end systems with Node.js, PostgreSQL, and MongoDB. Collaborated with the design team to implement the UI / UX requirements, ensuring alignment with the project objectives and enhancing the user experience. .

Certificates

Full Stack MERN Developer Program

Newton School, Bengaluru — Sept 2021 to March 2022

Worked on full-stack projects using MongoDB, Express.js, React, and Node.js. Collaborated in agile teams and contributed to frontend and backend development.

JavaScript Algorithms and Data Structures Masterclass

Udemy — by Colt Steele

Built a robust understanding of data structures and algorithms, leveraging systematic thinking to design efficient, scalable solutions in JavaScript.

Education

Reva University, Bangalore

Computer Science, Statistics, & Mathematics 8.5 CGPA

Coursework: Data Structures/Algorithms, Operating System, Discrete Math, Statistics/Probability

Activities: Served as Class Representative and secured 2nd prize in a coding challenge

Bangalore, Karnataka

2018–2021