Shashi Bhushan Kumar Tiwari

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Skills

Languages: Python, 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

- **Knowledge Graph Validation System**: Delivered a full-stack solution using React, Bootstrap, DynamoDB, AWS Lambda, and Amplify, cutting the validation time by **30%** per object and increasing the 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.
- **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**.
- **Document Caching Optimization**: Improved load time by ~92% (5758ms to 465ms) by caching Documents in IndexedDB and fetching only missing files, reducing redundant network calls in an application.
- **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.
- **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 4 internal repositories at **Drishya AI**, the component eliminated redundant presentation logic, reduced code duplication, and significantly improved code readability and developer efficiency.
- **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 **40% improvement in digitization speed**.

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   **Bangalore, Karnataka**
Computer Science, Statistics, & Mathematics 8.5 CGPA   2018–2021
Coursework: Data Structures/Algorithms, Operating System, Discrete Math, Statistics/Probability
Activities: Served as Class Representative and secured 2nd prize in a coding challenge