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

- **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.
- **ADM Validation Package (Python)**: Created an internal Python-based validation project to apply custom rules on JSON structures. The package was integrated into multiple internal projects, standardizing validation logic across services. It eliminated redundant code from different repositories and reduced validation time by **60%**.
- **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 — **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