

# Shashi Bhushan Kumar Tiwari

dev.shashib16@gmail.com 📞 (+91) 7763008284 🌐 website 📁 GitHub 🔗 LinkedIn

## Skills

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**Languages:** Python, JavaScript, TypeScript, SQL, GraphQL, Java

**Frameworks & Libraries:** React.js, Next.js, Express, Jest, Cypress, Tailwind, Bootstrap, Material UI

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

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

## Experience

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### Drishya AI

Software Engineer

Bangalore, KA

Mar 2022 – Present

- **Knowledge Graph Validation System:** Reduced validation time by 30% by architecting a scalable full-stack system using React, AWS Lambda, and DynamoDB to streamline object verification workflows.
- **Refactored a core front-end codebase** with **Zustand**, **TypeScript**, and **modular architecture**, boosting scalability, improving code quality, and reducing onboarding time.
- **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:** Built a reusable, zero-setup grid with **react-data-grid** to render structured JSON data with features like auto column generation, inline editing, filtering, and CSV/Excel export. Adopted in 4+ internal repositories at **Drishya AI**, reducing code duplication and improving 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

Frontend Intern

Bangalore, KA

May 2021 – Mar. 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. .

## Projects

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### AI-Portfolio

- Built an interactive AI-powered portfolio that generates personalized responses by analyzing a pre-integrated resume, helping visitors understand the skills, experience, and projects the candidate has.
- Leveraged **Gemini API** to parse the stored resume and deliver context-sensitive text responses.

## Certificates

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Full Stack MERN Developer Program

Newton School, Bengaluru — (Sept. 2021 – Mar. 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

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Reva University, Bangalore

Computer Science, Statistics, & Mathematics CGPA: 8.5

Bangalore, Karnataka

Jul. 2018 – Jul. 2021

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

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