

# MOHAMMED SADIK KP

## Full Stack Developer (MERN)

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🔗 Portfolio

### 👤 Professional Summary

Full Stack Developer (MERN) with **1+ years** of hands-on experience building scalable, production-ready web applications. Specialized in **TypeScript**, repository architecture, and real-time systems. Strong foundation in **backend APIs**, **modern UI/UX with Tailwind**, and **agile workflows**. Proven ability to deliver fast, optimized solutions with a focus on performance and maintainability.

### 🧠 Skills

**Languages** – JavaScript (ES6+) | TypeScript

**Frontend** – React.js | Tailwind CSS | Redux Toolkit | ShadCN | React-hook-form | Zod (TypeScript-first schema)

**Backend** – Node.js | Express.js | JWT Authentication | REST APIs | Cloudinary | InversifyJS | Mongoose | Nodemailer | Redis | Socket.IO

**Database** – PostgreSQL | MongoDB (Mongoose)

**Tools & Platforms** – Git | GitHub | Postman | Vercel | Docker | Firebase | Github Actions | AWS (EC2) | VSCode

**Architecture & Principles** – Repository Pattern | MVC Architecture | SOLID Principles | OOP Design

### 📁 Projects

#### Inspecto 📄

*Vehicle Inspection Management Platform*

- **Developed a full-stack web application** for vehicle inspection management, utilizing a modern tech stack including React (frontend) and Node.js/Express (backend).
- **Implemented role-based access control (RBAC)** for Admin, Inspector, and User roles, ensuring secure and tailored user experiences.
- **Built reusable and modular React components** with TypeScript, improving code maintainability and development speed.
- **Integrated third-party services** such as Cloudinary for image uploads and Stripe payment gateways for secure transactions.
- **Containerized the application using Docker** and managed multi-service orchestration with Docker Compose for streamlined development and deployment.

## Zay-Ecommerce

*Textile E-commerce platform*

- **Developed and maintained a full-stack e-commerce web application** using Node.js, Express, and EJS, implementing features such as user authentication, product catalog, shopping cart, order management, and admin dashboard.
- **Designed and integrated RESTful APIs** for core business functionalities including product management, user reviews, coupon/offer systems, and wallet transactions, ensuring robust and scalable backend operations.
- **Implemented secure authentication and authorization** using middleware and Passport.js, including role-based access control for admin and user functionalities.
- **Enhanced user experience with dynamic front-end components** and responsive UI, leveraging EJS templating and custom JavaScript for features like real-time cart updates, product filtering, and order tracking.

## Full-Stack Survey Portal

*Type-safe MERN survey system (Light/Dark Mode UI)*

- **Designed and implemented a full-stack survey platform** using TypeScript, React, and Node.js, enabling secure user authentication, and real-time data collection.
- **Developed RESTful APIs** with Express and MongoDB for robust survey management, including admin dashboards, bulk actions, and detailed submission analytics.
- **Engineered a modular, scalable codebase** with clear separation of concerns (frontend, backend, shared types), leveraging modern best practices such as containerization (Docker) and state management in React.
- **Integrated advanced features** such as CSV export, protected routes, and custom hooks, enhancing user experience and administrative efficiency.

## Open Source Contributions


### Inker - Dev Blog Platform

*TheByteFlow*

- Enhanced **API performance** by optimizing server-side rendering logic.
- Integrated **Zod and React-Hook-Form** for robust form validation.
- Introduced toaster notifications using **Sonner** for better UX feedback.
- Refactored folder structure and adopted standardized coding conventions.

## Education


### Full-Stack Development Program

*Prototype *

- Completed **1+ years** of intensive full-stack training with MERN stack & agile methodologies.
- Built and deployed **3+ full-stack projects**, including a production-ready app with real-world use cases and modern UI/UX practices.
- Gained deployment experience with **Vercel, Railway, and AWS**, ensuring end-to-end application delivery.
- Solved **270+ coding problems** on platforms like LeetCode and HackerRank, strengthening problem-solving and DSA skills.

01/2024 - present  
Kozhikode, India

### Bachelor's Degree - B.Com (Computer Application)

*University of Calicut *

- Studied computer science fundamentals including programming, database management, and business computing.

2017 - 2020  
Tirur, India