

Shubham Dattatray Asole

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[Portfolio](#)

Results-driven MERN Stack Developer specializing in scalable full-stack applications and secure RESTful APIs. Passionate about algorithms, backend optimization, and deploying high-performance systems using modern cloud technologies..

Technical Skills

Languages: Java, JavaScript (ES6+), Python, SQL, HTML5, CSS3

Frontend: React.js, Redux, Context API, Tailwind CSS, Material UI, React Router

Backend: Node.js, Express.js, REST APIs, JWT Authentication, MVC Architecture

Databases: MongoDB (Mongoose), MySQL

Tools & Platforms: Git, GitHub, VS Code, Postman, Vercel, Render, Linux/Bash

Core Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems

Education

B.Tech in Electronics and Communication Engineering

IITDM Kancheepuram

Nov 2022 – May 2026

Chennai, India

Projects

LoadMitrra – Full-Stack Logistics Platform

— Live — GitHub

- Facilitated seamless load discovery and shipment management for **2 distinct user roles** (Drivers & Suppliers) by architecting a scalable MERN stack solution.
- Optimized backend communication and reduced data retrieval latency by designing **20+ REST APIs** using Express.js and Mongoose.
- Secured sensitive user data and routes with **100% reliability** by implementing JWT-based authentication and custom middleware for role-based access control.
- Enhanced data integrity and query performance by modeling complex schemas with timestamps and validation logic in MongoDB.
- Reduced stakeholder coordination delays by integrating a **real-time chat module** using periodic polling mechanisms.

StatHub – Full-Stack Trading & Investment Platform

— GitHub

- Simulated high-frequency trading workflows by engineering a Zerodha-inspired platform featuring a comprehensive dashboard for Orders, Holdings, and Positions.
- Ensured secure, cross-application session management by implementing a centralized **JWT authentication system** utilizing multi-app token sharing.
- Improved portfolio visualization and user decision-making by integrating **Chart.js** to render real-time asset performance analytics.
- Achieved modular code structure and maintainability by utilizing React Context API for global state management across the application.

GoBnB – Accommodation Booking Platform

[Live] — [GitHub]

- Streamlined the accommodation booking process for users by developing a full-stack MVC application using Node.js, Express, and MongoDB.
- Enhanced property discovery and visualization by integrating **Mapbox** for interactive geocoding and maps.
- Optimized media storage and delivery speeds by implementing **Cloudinary** for seamless image uploads and management.
- Enforced robust data security and minimized input errors by applying strict server-side validation using **Joi**.

Weather Widgets – React Application

[Live] — [GitHub]

- Delivered real-time meteorological data to users by building a responsive React application consuming the **OpenWeatherMap API**.
- Improved code maintainability and development speed by creating modular, reusable components (SearchBox, InfoBox) styled with Material UI.

Internship Experience

Embedded Systems Intern

Startrit Infratech Pvt Ltd — May 2025 – July 2025

- Improved automation system reliability by developing sensor-integrated control modules using **Embedded C and Python**.
- Validated hardware-software communication protocols by building and testing a Raspberry Pi-based robotic prototype via UART.
- Accelerated inspection workflows by assisting in MATLAB-based simulations and data analysis.

Position of Responsibility

Hostel Affairs Coordinator

IITDM Kancheepuram — Mar 2023 – Apr 2024

- Orchestrated logistics and operational efficiency for **1000+ residents**, ensuring rapid resolution of maintenance and administrative issues.
- Demonstrated leadership by coordinating student teams to execute large-scale hostel events and operations.