

# **RITESH SINGH**

Bangalore, Karnataka | +91-9340255278 | singhritesh351@gmail.com

[Github](#) [LinkedIn](#)

Portfolio: <https://ritesh-singh-portfolio.netlify.app>

## **SUMMARY**

Backend-focused Full Stack Developer experienced with Java, Node.js, Express, PostgreSQL, and MongoDB. Built and deployed MERN applications with JWT authentication, role-based access control, and RESTful APIs. CDAC (Advanced Computing) graduate with strong foundations in DSA, DBMS, and OOP, seeking backend or full stack developer roles.

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## **EDUCATION**

### **Centre for Development of Advanced Computing (CDAC), Bangalore**

Post Graduate Diploma in Advanced Computing (PG-DAC) — **Completed 2026**

- Specialization: Advanced Web Programming (MERN) and Java Technologies
- Core Modules: Operating Systems, Database Technologies, Software Engineering

### **Gyan Ganga Institute of Technology and Sciences, Jabalpur, MP**

Bachelor of Technology (Honours) in Electronics & Communication Engineering — **2018–2022**

- CGPA: 8.40 / 10

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## **Career Note**

Took time off in 2022–2023 to recover from an appendicitis surgery; continued self-study in Java, DSA, and web development and later completed CDAC with full stack projects.

## **TECHNICAL SKILLS**

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

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Role-Based Access Control (RBAC), JDBC

Frontend: React.js, React Hooks, Context API, Tailwind CSS, Vite, Responsive Design

Databases: PostgreSQL, MongoDB

Tools & Platforms: Git, GitHub, Postman, Docker (basics), VS Code, Railway, Netlify

Concepts: OOP, DBMS, MVC, Microservices (basics), API Design & Testing, Data Structures & Algorithms

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## **PROJECTS**

### **AssetFlow – Investment Simulator**

React, Node.js, Express, PostgreSQL | JWT, RBAC, FSM, Vite

[Github](#) | [Live](#)

- Built a full-stack investment simulator with separate Admin/User flows consuming REST APIs.
- Implemented an FSM (8 asset states) to enforce settlement rules and block invalid state transitions.
- Secured APIs using JWT (access/refresh) and RBAC; added request validation and centralized error handling.
- Improved UX/performance with offline caching (localStorage) and CRA → Vite migration; deployed (Railway + Netlify).

### **Loan Management System** | MERN (MongoDB, Express, React, Node.js) | JWT, RBAC

[GitHub](#)

- Built a loan lifecycle app with User applications and Admin approvals.
- Designed REST APIs for loans, EMI schedules, repayments, and status updates; tested using Postman.
- Implemented JWT auth + RBAC; added input validation, Express middleware, and consistent error responses.
- Developed a responsive Admin dashboard with loan status tracking, search, and filtering.

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## **ADDITIONAL INFORMATION**

- Comfortable working with Git workflows (branching, pull requests, code reviews).
- Basic understanding of Docker for containerizing Node.js applications.