

# MANASVA DHAKA

Software Engineer | B.Tech Student

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[github.com/Manasva504](https://github.com/Manasva504) | [Portfolio](#)

## ABOUT ME

B.Tech Information Technology undergraduate at Manipal Institute of Technology with hands-on experience building production-style full-stack applications across the MERN stack. Comfortable across the stack — REST API design, JWT authentication and role-based access control, MongoDB schema and aggregation design, and real-time features with Socket.IO — with a growing focus on backend systems and scalable software design.

Strong foundation in Java, C, and Python, with active daily practice in data structures and algorithms. Quick learner, adaptable to new tools, codebases, and frameworks, and looking to grow these skills as a Software Engineering Intern.

## EXPERIENCE

### Software Development Intern — Adnate IT Solutions Pvt Ltd (Remote)

Jun 2026 – Present

- Building a full-stack Student Management System (React, Redux Toolkit, React Router on the frontend; Node.js, Express, MongoDB on the backend) with full CRUD, search, filtering, sorting, and pagination.
- Implemented JWT-based authentication with role-based access control (RBAC) and an OTP-driven forgot-password flow with automated email notifications.
- Built authenticated real-time features with Socket.IO, including live user presence tracking and an admin activity feed that updates on every data change.
- Designed MongoDB aggregation pipelines to power dashboard analytics, including branch-wise distribution, average CGPA, and registration trends.
- Added Excel, CSV, and PDF export endpoints and implemented audit logging for all administrative actions.
- Wrote unit and integration tests (Jest, Supertest, mongodb-memory-server) covering authentication and core CRUD functionality.

## PROJECTS

### AI-Powered Customer Support Chat Widget

FastAPI · Python · Gemini API · JavaScript

- Built an embeddable AI chat widget that answers customer questions strictly from a business's own FAQ content, preventing hallucinated responses.
- Designed a FastAPI backend exposing a REST endpoint that grounds every model response in a configurable knowledge base, keeping API keys server-side only.
- Built a dependency-free, framework-free JavaScript widget embeddable on any website with two script tags.

### Personal Portfolio Website

HTML · CSS · JavaScript

- Designed and built a responsive personal portfolio site showcasing projects and skills, iterated on UI/UX and accessibility based on review feedback.

## SKILLS

**Languages:** Java, C, Python, JavaScript

**Web & Backend:** React.js, Redux Toolkit, Node.js, Express.js, REST API Design, JWT Authentication & RBAC, Socket.IO

**Databases:** MongoDB, SQL

**Tools & Testing:** Git & GitHub, Jest, Supertest

## EDUCATION

### Manipal Institute of Technology, Bengaluru

Bachelor of Technology (B.Tech), Information Technology • 2024 – 2028 • Current CGPA: 7.535

### BVB Vidyashram, JLN Marg, Jaipur, Rajasthan

Class 12th • Percentage: 88.2% | Class 10th • Percentage: 89%

## LANGUAGES

English, Hindi