KARUNA BISHNOI

📞 +91-9509696516 ✉ bt22cs026@nitmz.ac.in </> Portfolio 🔗 Linkedin ⌘ Github </> LeetCode </> Geeksforgeeks

EDUCATION:

National Institute of Technology (NIT), Mizoram   **2022 - 2026**
B.Tech in Computer Science & Engineering   *7.75/10 CGPA*

EXPERIENCE:

Research Intern – AI/ML   **December 2024 - January 2025**
IIT Guwahati   *On-Site · Internship*

- Conducted research in image processing using Python, PyTorch, and OpenCV.
- Developed object recognition and motion tracking algorithms for real-time multimedia systems.
- Collaborated on improving system accuracy and analytics performance.

AI/ML Intern – Generative AI   **December 2024 - January 2025**
Nelumbus Technology   *Remote · Internship*

- Replicated ChatGPT-based solutions with Google Gemini for real-world AI use cases.
- Developed a Question Paper Generator using RAG and Generative AI with Flask backend.
- Created a user-friendly frontend using HTML/CSS with dynamic content integration.

PROJECTS:

Hospital Management System | *Java, JDBC, MySQL*
  * Built a Java-based application integrated with MySQL using JDBC to manage hospital operations including patients, doctors, and appointments.
  * Implemented appointment booking, doctor availability checks, and secure storage of patient records in a relational database.
  * Designed modular code structure enabling easy maintenance and future feature expansion such as billing and medical reports.

School Management System | *MERN Stack (MongoDB, Express.js, React.js, Node.js)*
  * Developed a MERN-stack application enabling admins, teachers, and students to manage classes, attendance, marks, and communication through dashboards.
  * Implemented Redux Toolkit and Recharts for state management and data visualization, enhancing usability via interactive charts and tables.
  * Built RESTful backend APIs with Node.js and Express.js, backed by MongoDB, to facilitate real-time updates and reliable data storage.

BookStore Application | *MERN Stack (MongoDB, Express.js, React.js, Node.js)*
  * Developed a full-stack CRUD Book Management System with RESTful APIs in Node.js/Express.js and MongoDB for reliable data storage.
  * Built a responsive React frontend with Vite and TailwindCSS, featuring React Router for navigation and modals/alerts for enhanced user experience.

TECHNICAL SKILLS:

Programming Languages: Java, JavaScript, Python, C, SQL, HTML, CSS, PHP , TypeScript
Frontend Frameworks: React.js, Next.js, Redux, Tailwind CSS,
Backend Frameworks: Node.js, Express.js, RESTful APIs, Socket.IO, AirCode
Databases: MongoDB, MySQL, JDBC
Developer Tools & Version Control: Git, GitHub, VS Code, Figma
Data Science & Other Technologies: Numpy, Pandas, Seaborn, RAG , Generative AI

KEY ACHIEVEMENTS:

  * Solved 100+ DSA Questions – Practiced on LeetCode, GFG, and Codeforces, enhancing problem-solving skills.
  * Led Farewell 2025 at NIT Mizoram as Event Incharge, managing logistics and planning.