

Vishal Bhagat

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Education

Mizoram University
Bachelor of Technology, Information Technology
CGPA: 7.85

Aizawl, Mizoram
Aug. 2021 – July 2025

Central Board of Secondary Exam
Higher Secondary
Percentage : 86%

Araria, Bihar
April 2019 – May 2021

Relevant Courses: Operating System, Database Management System, Computer Network, Data Structure and Algorithm , Object Oriented Programming, Cryptography

Experience

Summer Internship

June 2024 – July 2025

National Institute of technology, Patna

Patna, Bihar

- Designed a system model for WRSNs using MVs and UAVs to improve energy management and data transmission
- Organized the network into hexagonal clusters with dynamic CHNs and optimized charging schedules.
- Developed algorithms for efficient charging paths, CHNs election, and data collection to reduce energy use and buffer overflows
- The simulations revealed enhanced energy efficiency, extended network lifetime, and improved data transmission, effectively reducing sensor node downtime.

Projects

Bug-Tracker | A Full MERN Stack Project

June 2025

- Built a full-featured Bug Tracker web application to streamline software issue reporting, tracking, and team collaboration across projects.
- Implemented project and ticket management with role-based access, enabling admins, developers, and managers to assign, track, and resolve bugs efficiently.
- Integrated a drag-and-drop Kanban board, real-time comments, file uploads, filtering/sorting, and JWT-based secure login system for seamless workflow.
- Tools/Technologies used: **MongoDB, Express.js, React.js, Node.js, Tailwind CSS, JWT, React Router, Axios, react-beautiful-dnd, Visual Studio Code** | [Github](#)

Chatbot-Using-NLP

May 2025

- Developed an interactive chatbot capable of understanding and responding to user queries using Natural Language Processing (NLP) techniques.
- Implemented text preprocessing, intent recognition, and response generation using libraries like NLTK/spaCy to simulate human-like conversations.
- Designed a responsive frontend interface and connected it with backend logic to manage dialogue flow, context retention, and user interaction history.
- Tools/Technologies used: **Python, Flask, NLTK, spaCy, HTML, CSS, JavaScript, VS Code** | [Github](#)

GrocerEase | A Grocery delivery Website

Nov 2024

- Developed a dedicated grocery delivery website addressing the lack of organized delivery systems in Mizoram, improving accessibility for remote and urban customers.
- Integrated an Admin and Seller Panel to streamline inventory management, order tracking, and product updates for enhanced vendor operations.
- Enhanced user experience with responsive design, interactivity, and efficient database management for seamless navigation and transactions.
- Tools/Technologies used: **HTML, CSS, Javascript, PHP, MySQL, Visual Studio Code** | [Github](#)

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Next.js, Vite, PHP, Flask, Angular

Libraries: React, Redux, TailwindCSS, Jest, NLTK, spaCy, Npm

Developer Tools: Git, GitHub, MongoDB, MySQL, Visual Studio Code, Render, REST API, WordPress