

# VASU PARASHAR

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## EDUCATION

Indian Institute of Information Technology, Nagpur

B.Tech - Computer Science Engineering with Minor in Data Science and Analytics

Expected July 2026

Nagpur, India

## INTERNSHIPS & HACKATHONS

Software Development Engineer Intern - Fitpage

6 Months

Full-Stack Development & Product Engineering

Remote

- Secured competitive SDE internship position at Fitpage, contributing to fitness technology solutions and product development initiatives.

HSBC Hackathon Winner & SDE Intern

6 Months

Fintech Solutions & Banking Technology

Remote

- Won HSBC's prestigious hackathon competition among hundreds of participants, demonstrating exceptional problem-solving skills and innovative fintech solutions.
- Awarded 6-month Software Development Engineer internship at HSBC as recognition for outstanding hackathon performance and technical excellence.

## TECHNICAL SKILLS

**Programming :** C, C++ (Proficient), JavaScript, Python

**Frontend :** React.js, Vite, HTML5, CSS3, Tailwind CSS

**Backend :** Node.js, Express.js, JavaScript (ES6), RESTful APIs, JWT, WebSockets, Socket.IO

**Databases & Storage :** MongoDB Atlas, Cloudinary

**Cloud & DevOps :** AWS (EC2), Docker, Nginx

**Version Control :** Git, GitHub

**Operating Systems :** Windows, Linux

## PROJECTS

AlumConnect | Smart India Hackathon | Node.js | Express.js | MongoDB |  GitHub | [Live](#)

- Built a comprehensive alumni networking platform with **OAuth2 integration**, **Socket.IO** for real-time messaging, and scalable **REST APIs** using the MERN stack architecture.
- Deployed on **AWS EC2** with **NGINX** load balancing and **Cloudinary integration** for media management, optimizing file upload performance and storage efficiency.
- Implemented **8 core modules** including Network Hub, Event Management, and Donation Portal, serving the networking needs of **15+ academic departments** within the institution.

Exam Seat Planner | MERN Stack | React.js | TypeScript | MongoDB |  GitHub

- Developed a comprehensive exam seating management system with **intelligent seating algorithms**, **Excel integration** for data import/export, and automated seat allocation using **column-wise course distribution** to prevent academic misconduct.
- Built scalable **REST APIs** with Express.js and MongoDB, featuring **Multer file handling**, **XLSX processing**, and real-time updates with **React Toastify**, reducing manual seating effort by **90%**.
- Implemented **anti-cheating optimization algorithms** with course separation logic, classroom utilization analytics, and **drag-and-drop seat swapping**, efficiently managing examinations for **1000+ students** across multiple classroom configurations.

Wisp | MERN Stack | Socket.IO | Cloudinary | Vercel |  GitHub | [Live](#)

- Developed a full-stack chat platform enabling **real-time 1:1 messaging**, **online presence**, and secure **JWT authentication** using React, Node.js, Express, and MongoDB.
- Implemented scalable **WebSocket architecture** with Socket.IO, supporting instant message delivery and dynamic **online/offline user indicators**.

## RELEVANT COURSEWORK

**Core Subjects :** Database Management Systems (DBMS), Operating Systems, Computer Networks, Object-Oriented Programming (OOP)