

NUPUR SHIVANI

Muzaffarpur, Bihar, India

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EDUCATION

VIT Bhopal University

Expected May 2026

Bachelor of Technology in Computer Science Engineering - Cyber Security & Forensics

CGPA: 8.54/10.0

- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Computer Networks, Operating Systems, Software Engineering, Object-Oriented Programming, Machine Learning, Cybersecurity Fundamentals, AWS

TECHNICAL SKILLS

Programming Languages: C/C++, Java, JavaScript, Python, SQL

Web Technologies: HTML5, CSS3, React.js, Node.js, Express.js, Next.js, RESTful APIs

Databases & Cloud: MongoDB, MySQL, Redis, AWS (EC2, S3, Lambda)

Tools & Frameworks: Git, GitHub Actions, Docker, JWT, Socket.IO, WebRTC, Django

Libraries: Pandas, NumPy, Matplotlib, Fabric.js, Recharts, C++ STL

PROFESSIONAL EXPERIENCE

Ethnus - Codemithra

January 2025 – April 2025

Full Stack Developer Intern

Remote

- Architected full-stack car rental platform using MERN stack with JWT authentication and filtering system, achieving **95%** functional accuracy across **50+** test scenarios
- Engineered **10+** RESTful APIs for user authentication and booking workflows, processing **500+** concurrent requests with **sub-200ms** response times
- Optimized MongoDB schema design implementing indexing strategies that improved query performance by **40%** and ensured scalability

Bharat Sanchar Nigam Limited (BSNL)

November 2024 – January 2025

Telecom & Network Engineering Intern

Muzaffarpur, Bihar

- Analyzed telecom switching systems and signaling protocols (SS7, SIP) contributing to network optimization for **10,000+** subscriber base
- Diagnosed hardware/software malfunctions in PSTN and VoIP infrastructure, reducing system downtime by **25%** through preventive maintenance
- Documented fiber-optic system operations and maintenance procedures, creating technical guides for network upgrades and staff training

KEY PROJECTS

MindMesh - Collaborative Study Platform 🏠

2025

- Constructed collaborative platform using Next.js, Express.js, MongoDB supporting **500+** concurrent users with real-time video conferencing, interactive whiteboard, and collaborative code editing
- Integrated **WebRTC** and **Socket.IO** achieving **99.5%** uptime and **sub-200ms** response times across microservices
- Implemented subscription management with Razorpay and **analytics** dashboard, supporting freemium model with **automated** billing

CliniGuard – AI-Powered Healthcare Management Platform 🏠

2025

- Developed a full-stack healthcare solution using React.js, Node.js, MongoDB, and WebSockets, combining **telemedicine** and AI-based disease prediction to improve diagnostic **accuracy by 30%**
- Architected a dual-mode appointment system with **AI-guided** and **direct booking** flows, reducing patient wait times by **45%** through efficient calendar and provider matching.
- Instituted secure, role-based access controls and encrypted patient record management, supporting over **1000 profiles** in a HIPAA-compliant environment

SmartNotesAI - AI-Powered Transcription 🏠

2025

- Built responsive note-taking application using React.js and Tailwind CSS with **real-time** audio transcription and multi-language translation
- Achieved **98%** transcription accuracy utilizing **Whisper ASR** model and NLLB-200 for translation across **10+** languages
- Leveraged **Web Workers** for client-side AI processing, maintaining responsive UI while ensuring complete user privacy

ACHIEVEMENTS & CERTIFICATIONS

- Solved **300+** **coding challenges** on LeetCode, enhancing proficiency in data structures & algorithms.
- ACM Winter School 2023 in AI and ML in Industry 4.0 – **IIT Patna**
- Smart India Hackathon 2024 – Internal Round Qualifier
- IBM Cybersecurity Analyst Professional Certificate
- Deloitte Data Analytics Job Simulation – Virtual Internship Completion