Kovidh Vardhan Singh Bhati

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EDUCATION

Bachelor of Technology in Computer Science
VIT Bhopal University, Sehore | CGPA: 8.90   ***September 2023 – Present***

Higher Secondary Education (12th)
Maharaja Sawai Man Singh Vidyalaya (Jaipur) | Percentage: 82.6%   ***March 2023***

Secondary Education (10th)
Maharaja Sawai Man Singh Vidyalaya (Jaipur) | Percentage: 86.5%   ***March 2021***

PROFESSIONAL EXPERIENCE

Core member, technical team
BashCraft Club, VIT Bhopal | March 2025 – Present
- Organized a university-wide hackathon and webinar attended by 600+ participants.
- Hosted a podcast with a Senior Staff Engineer from Google on LLMs and system design.
- Coordinated a fintech hackathon in partnership with Zerodha, attracting 280+ attendees.

PROJECTS

Face2Face: Private video conferencing [Link]
- Developed a real-time conferencing app with WebRTC (audio/video), WebSocket signaling, and peer-to-peer file sharing in scalable multi-user rooms.
- Designed a modular Node.js client-server architecture with separate WebSocket and HTTP APIs, enabling robust connectivity and efficient error handling.
- Built reusable frontend components in JavaScript for real-time chat, file uploads
  Technologies: JavaScript, WebRTC, WebSocket, Express.js, Docker

Garbage Management System [Link]
- Developed a geolocation-based garbage pickup system with role-based access for customers, drivers, and admins, supporting ticket creation, time slot selection, and note attachments.
- Built a modular backend using Node.js, MongoDB (with 2dsphere indexing), Redis caching, and Mongoose for geospatial queries and data validation.
- Designed secure REST APIs with role-specific workflows and proposed route optimization using shortest-path algorithms to improve efficiency.
  Technologies: JavaScript, Express.js, Node.js, MongoDB, Redis

CO-CURRICULARS AND ACHIEVEMENTS

Health-O-Hack 2025
- Led a 4-member team to the final round of Health-O-Hack 2025 at VIT Bhopal, advancing through all selection rounds from a pool of 400+ teams.

District Level football
- Won 1st place in a district-level football tournament, representing Maharaja Sawai Man Singh Vidyalaya as a starting player.

TECHNICAL SKILLS: JavaScript | C++ | Java | HTML | CSS | Express.js | Node.js | Redis | MongoDB | MySQL | Docker | Kubernetes