

# KARANPAL SINGH

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Pilani, Rajasthan, India

## SUMMARY

B.Tech Computer Engineering student at B K Birla Institute of Engineering and Technology, Pilani, Focused on scalable systems in Web Development, Machine Learning, and practical software engineering applications. Skilled in building lightweight, efficient, and user-friendly full-stack applications using modern web technologies. Passionate about scalable systems, clean UI, and practical problem solving through impactful technical projects.

## EDUCATION

|  |                   |
|--|-------------------|
| <b>B K Birla Institute of Engineering and Technology, Pilani</b> | Pilani, Rajasthan |
| <i>B.Tech in Computer Engineering</i>                            | 2022 – 2026       |
| <b>Rajasthan Board of Secondary Education (RBSE)</b>             | Rajasthan         |
| <i>Class XII (Senior Secondary) – 90%</i>                        | 2023              |
| <b>Rajasthan Board of Secondary Education (RBSE)</b>             | Rajasthan         |
| <i>Class X (Secondary) – 87%</i>                                 | 2021              |

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, Python, C, C++  
**Frameworks & Technologies:** MERN Stack, Next.js, React.js, Node.js, Express.js, MongoDB, Tailwind CSS  
**Machine Learning & AI:** Machine Learning Algorithms, Data Analysis, AI Foundations, NumPy, Matplotlib, Scikit-learn  
**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Computer Networks, OOP, DBMS

## PROJECTS

- Fundify Campus: Decentralized Student Crowdfunding** | *MERN, Algorand, node-cron* GitHub | Live
- **Winner – ACE Hack 5.0:** Built a zero-fee decentralized crowdfunding platform using MERN stack and Algorand blockchain.
  - Integrated Pera Wallet and `algorand` for secure peer-to-peer contributions.
  - Developed automated refund workflow using `node-cron`.
- Send Me a Chai** | *Next.js, Tailwind CSS, Razorpay, GitHub OAuth* GitHub | Live
- Developed a creator-centric crowdfunding platform for seamless supporter interactions.
  - Integrated GitHub OAuth, Razorpay payments, real-time notifications, and dashboard.
  - Implemented secure profiles and personalized supporter messaging.
- CardioPredict: Heart Attack Risk Level Prediction** | *Python, Random Forest, Scikit-learn* GitHub
- Built a Random Forest model to classify heart attack risk levels using clinical health indicators, achieving **98% accuracy**.
  - Performed feature importance analysis and hyperparameter tuning to improve model interpretability and reliability.

## EXPERIENCE

- IIT Bombay – Spoken Tutorial Project** Remote  
*C Programming Trainee* 2024
- Strengthened problem-solving and procedural programming skills through structured assignments and practical exercises.
- Muskurahat Foundation** Mumbai (Remote)  
*Crowdfunding Intern* Jan 2025
- Worked on outreach strategies, donor engagement, and campaign promotion to improve participation.

## CERTIFICATIONS

- C Training – IIT Bombay (Spoken Tutorial)** | View Credential  
**DSA in Java – Apna College** | View Credential  
**Java Internship – CodSoft** | View Credential  
**HackwithUttarpradesh Certificate** | View Credential

## ACHIEVEMENTS

- ACE Hack 5.0 Winner** | Built Fundify Campus, a decentralized crowdfunding platform  
**Solved 200+ DSA Problems** | Across LeetCode, Codeforces, CodeChef and HackerRank  
**Active GitHub Contributor** | 300+ contributions with consistent coding practice