

# Harmeet Singh

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LinkedIn

GitHub

Twitter

Portfolio

## Education

Shri Mata Vaishno Devi University

Bachelor of Technology CSE (CGPA: 8.54 / 10.00)

Katra, J&K

Dec 2021 - May 2025

## Technical Skills

**Languages:** Python, C++, JavaScript, TypeScript, SQL, NoSQL, HTML, Tailwind CSS, Markdown

**Technologies:** MERN, Next.js, AWS, Linux, Firebase, Redux, Socket.io, REST API, PostgreSQL, MySQL, MongoDB

**Concepts:** OOP, Operating System, DBMS, Computer Network, Git, GitHub

## Experience

Codeate

Bangalore

Technical Content Writer

Sep 2023 - Nov 2023

- **Researched** and **analyzed** Immutable Ledger, Hashes, Nonce, increasing technical proficiency **by 80%**
- Researched **Consensus Protocols**, enhancing understanding of reward-fine systems **leading to a 70% boost**.
- Uncovered IPFS, Timestamp, PoW and PoS, and Oracles **resulted in a 45% increase in proficiency**.
- Classified the research on **ERC20, ERC721, ERC1155, and EIP1559 tokens**, contributing to a **50% improvement** in understanding token and NFT standards and their implications.
- **Reduced** failure rate of candidates **by 40%** through in-depth investigation of **Merkle Trees, Genesis Block** deepening knowledge of blockchain infrastructure.

## Projects

**Talk-A-tive** | React.js, Chakra UI, Node.js, Socket.io, MongoDB, Express.js

- Integrated **Socket.io** to enable real-time messaging functionality, reducing message delivery latency by **40%**.
- Designed **bcrypt** encryption to ensure secure user authentication, reducing risks of unauthorized access by **50%**.
- Optimized image upload process by integrating **Cloudinary API**, decreasing image upload time by **25%**.
- Introduced **JWT** for authentication and authorization, enhancing data security and access control, resulting in a **60%** reduction in unauthorized access attempts.

**Natours** | React.js, Tailwind, Node.js, Stripe, MongoDB

- Orchestrated the integration of payment functionality with **Stripe** reducing checkout time by **30%**.
- Improved UX by implementing weather forecast functionality resulting in a **25%** decrease in tour cancellations.
- Proposed a feature for uploading multiple images using **Cloudinary API**, reducing **40%** in image upload time.
- Powered by Chart.js, an Admin Panel lead to a **25%** increase in operational efficiency and better decision-making.
- Achieved search functionality leveraging **MongoDB**, resulting in a **50%** improvement in search query response time and a **15%** increase in user satisfaction.

## Accomplishments

**Scholarship Recipient - FFE, U.S.A.:** offered to students from the U.S.A. and India for a period of 4 years.

**Winner:** Web3 Sangam Blockchain Quiz, TITIKSHA Tech Fest SMVDU, 2023.

## Teaching/Leadership Roles

Led the Backstage and technical Team for the "Web3 Sangam" and "Hack the Hackers" events.

The event's organization and promotion, along with the identification and invitation of accomplished guest speakers.

At CodeClub students were coached the importance of DSA, crafting compelling resumes and LinkedIn Profiles.

## Publications

**Blockchain Applications in Supply Chain, Social Good, and Beyond**, This book delves into the revolutionary impact of blockchain on industries such as food quality, social good, financial inclusion, and government-based applications while also discussing what is classified as a good blockchain application.