

# Ayush Bansal

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## Profile Summary

Computer science student with experience in **blockchain**, **zero-knowledge proofs**, and **decentralized systems**. Contributed to **Bitcoin mining infrastructure** using **Rust** and **Stratum V2**. Skilled in **web development** and involved in **privacy** and **security**-related projects.

## Education

B.Tech. - CSE | LNM Institute of Information Technology | CGPA: 7.34 / 10

Oct 2022 – May 2026

## Experience

Software Engineering Intern: Demand Pool

May 2025 – Present

**Key Skills:** Rust, Stratum V2, Bitcoin Mining, CLI Tools, Multithreading

- Building core infrastructure for a **Stratum V2-based mining pool** using Rust.
- Implemented **multi-upstream support** with dynamic hashrate allocation and optimized connection logic.
- Actively involved in code reviews, testing, and collaborative development with maintainers and contributors.

Web Developer: ZappInvest

Jan 2023 - Jul 2023

**Key Skills:** ReactJS, Javascript, CSS, Tailwind, Figma, Optimization

- Converted **Figma designs** to **live web pages**.
- Created **reusable components** to **simplify** further development.

## Projects

zkCertify

**Key Skills:** Zero-Knowledge Proofs, Blockchain, Smart Contracts, Web3, ReactJS

- Developed a **ZK-based** verification system that automates credential checks using zero-knowledge proofs, ensuring privacy and authenticity. This project won the **ZkVerify Online Hackathon** among 50+ submissions.
- Combined academic performance (CGPA) and skill-based assessments (MCQ tests) to offer a holistic evaluation of a student's capabilities.
- Streamlined recruitment by minting NFT-based attestations on Arbitrum and EDUCHAIN.

MantREX

**Key Skills:** Rust, Blockchain, ReactJS, CosmWasm, Linux, Backend

- Orchestrated team efforts to build a **robust RWA trading platform** with an intuitive UI, leveraging blockchain for secure, transparent transactions.
- Oversaw comprehensive development tasks ensuring secure wallet integration and efficient backend processing.
- Achieved hackathon recognition for innovative design while coordinating cross-functional teams with agile methodologies.

Study Notion

**Key Skills:** ReactJS, Express.js, MongoDB, Bcrypt, Mongoose, JWT, Postman

- Developed a **scalable ed-tech platform** for interactive learning and content creation, incorporating responsive design for optimal viewing.
- Engineered distinct user roles and designed secure API endpoints with robust JWT authentication.
- Integrated payment solutions and RESTful services to deliver a **seamless user experience**.

## Additional Experience and Awards

**Selected Contributor, Summer of Bitcoin 2025:** Working on Bitcoin mining infrastructure using Rust under Demand Pool.

**Hackathon Winner:** Won first place at the International zkVerify, MANTRA RWA and LNMHACKS 6.0.

**Salesforce Certificate:** Earned the Salesforce AI Associate Certificate.

**Instructor:** U&I Teach Program 2024-25 Cohort and IOT, WP, OOPs TA at LNMIIT.

**Ex-Lead, LNMHacks:** Spearheaded India's largest Web3 college hackathon as the former lead of LNMHacks.

## Technologies

**Languages:** Solidity, Rust, Java, JavaScript

**Frameworks/Libraries:** ReactJS, Next.js, Express.js, Mongoose, CosmWasm

**Other Tools and Skills:** MySQL, MongoDB, EC2, Docker, Linux, Postman, Bcrypt, JWT