

Indian Institute of Technology (ISM), Dhanbad

2021 - 2025

Bachelor of Technology in Department of Mechanical Engineering (MME)

- **Relevant CSE Coursework:** Blockchain Technologies, Data structures and algorithms, Artificial Intelligence, Cryptography, Graph Algorithms, Computer Programming, Optimization Techniques, Evolutionary Computation.



Experience

Marlin Protocol

March 2025 — Present

Software Engineer (& Developer Relations)

Remote, Singapore

- Building a verifiable computing protocol featuring TEE & ZK coprocessors to delegate workloads over decentralized cloud.
- **Co-Authored** a course on “**Offchain computing using TEE coprocessors**” for **Binance Academy** : Course , Credits

I'mBesideYou

Remote, Japan

- Contributor: December 2025 — Present

- Software Engineer Intern (Certificate): May 2024 — July 2024

Furverse

July 2023 — April 2024

Blockchain Developer | Certificate

Remote, India

- Built their website and implemented their AI and Web3 Functionalities using Ethereum Blockchain (EVM-based chains).

Open-Source Contributions

Randamu | An Open-Sourced project of **Protocol Labs**

- Fixed docker container startup errors for Onlyswaps (DeFi protocol for cross-chain swaps): Link to PR.
- Built Dutch-auction based multi-chain swap solver for Onlyswaps rewarding the fastest routes: Link to Repo.

Freelance Work

DevsGiant: Designed and built ETH smart contracts and integrated them with the Next.js frontend for a Web3 gaming product.

Projects

StarknetAVS | GitHub, Demo / Pitch Doc | **ETH India'24 Winner : Winner of Starkware top project at ETH India'24.**

- Fetches transactions on Starknet blockchain and flags it if doesn't follow compliance rules using trained AI models.
- Built with EigenLayer's AVS for verifying all AI results, and operators can earn from re-staking.

Private-Gnome | GitHub, Demo, Pitch Doc | **ETH Belgrade : 1st Prize in IExec's top TEE IApp.**

- Predicts health risks from DNA, powered by a custom-trained ML model running securely in IExec's TEE.

DevRail X402 | GitHub, Demo / Pitch Doc | **Starknet Re{Solve} Hackathon Winner**

- A X402 payments standard based Dev toolkit that makes any API, service, or piece of content instantly monetizable.

StarkPAI | GitHub, Demo, Pitch Doc | **Starknet Hacker House Winner : I presented this project at IBW'24 stage as winners.**

- An AI-powered wallet on Starknet Blockchain built from scratch for better and smarter user experience.

Crypto-UPI | GitHub, Demo, Pitch Doc | **Starknet Winter Hackathon Winner : Best Project in DeFi Track.**

- A decentralized intent solver marketplace, where local solvers can fulfill payment intents and receive crypto tokens.

ZK-Science | GitHub, Demo, Pitch Doc

- Prove legitimacy of your scientific survey/research volunteers without revealing their personal data.

In-Device Offline Generative AI | GitHub, Demo

- **Motivation:** To build MVP of an AI chatbot for confidential use cases, like military, medical industries, tech firms etc.
- Built multilingual Lamini-Flan, Flan-Alpaca, Apple-OpenELM, Bart models to work fully offline In-browser / Android App.

Achievements

Uniswap Hook Incubator Alumni | Winner at ETH India'24, ETH Belgrade'25 ,Starknet Hacker House, Starknet Winter Hackathon, Loops Hacker House, Starknet Re{Solve} Hackathon, Mode DeFi AI Hack | Starknet Top Builder NFT | Starknet Basecamp Top Graduates | Founding Member: Web3 Club of IIT ISM | Leetcode, GFG | **Kartavya NGO:** Mentor of underprivileged Kids