

SHREHAN RAJ SINGH | 24CE10103

Indian Institute of Technology Kharagpur



EDUCATION			
Year	Degree/Exam	Institute	CGPA/Percentage
2023	B.Tech, Civil Engineering	Indian Institute of Technology Kharagpur	8.68
2019	Class XII, CBSE	Hem Sheela Model School, Durgapur	94.2%
2017	Class X, CBSE	Hem Sheela Model School, Durgapur	97%

FRUCATION

INTERNSHIPS AND PROJECTS

Financial Intelligence Platform Inter IIT Tech Meet 14.0

Oct '25 - Dec '25

- Built an Al-powered financial intelligence platform for real-time market analysis and research across NASDAQ and S&P
 500 companies.
- Trained and deployed Al agents and conversational chatbots backed by proprietary data with strict guardrails for safety and relevance.
- Built a RAG-based World Data Model over alternative data and SEC filings to enable context-aware financial querying.
- o Ranked second in the problem statement and gold overall.
- o Technology stack: Python, LangChain, LangGraph, Pathway, Next.js, FastAPI, HuggingFace, Modal, Kafka, Docker

Interpreted Programming Language Self Project

May '25 - Present

- Designed and implemented a **thread-safe interpreted programming language** with support for functions, loops, conditionals, and exception handling.
- Built a modular runtime and interpreter supporting user-defined modules, classes, and single/multiple inheritance.
- Link to repository is https://github.com/shrehanrajsingh/sunflower-cpp
- Technology stack: C++, C

Employee Health Detection General Championship

Mar '25 - Apr '25

- Built an Al-driven employee engagement system leveraging chatbots and sentiment analysis to extract insights from employee conversations.
- Technical stack: Python, PostgreSQL, Docker, SQLAlchemy, React, Node.js, Modal.

Blockchain Simulator Jun '25 - Jul '25

- Designed and implemented a **local blockchain simulation framework** to model decentralized networks in a controlled environment.
- o Implemented a **Proof-of-Work (PoW) consensus mechanism** including block validation and chain extension logic.

SKILLS AND EXPERTISE

- o Programming Languages: Python, C++, C, JavaScript, Rust, SQL
- Frameworks and Libraries: LangGraph, LangChain, Next.js, React, Docker, FastAPI

COURSEWORK INFORMATION

o Programming and Data Structures - EX

Programming and Data Structures Laboratory - EX

o Advanced Calculus - EX

Internet of Things in Civil Engineering - EX

• Fundamentals of Embedded Computing and Software - A

Algorithm Laboratory - A

POSITIONS OF RESPONSIBILITY

Student Volunteer | Induction Team 2025

May'20 - July'21

- Guided and mentored **freshmen** students in acclimatizing to the environment of the institute.
- o Conducted bus tours to freshmen students showing them around the campus.

AWARDS AND ACHIEVEMENTS

• Secured a rank of 349 in WBJEE, out of 1,50,000 candidates.