

# Harshit Jaiswal

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## EDUCATION

### IIIT, Naya Raipur

Bachelor of Technology in Computer Science

CGPA: 8.54 (up to 6th semester)

Naya Raipur, Chhattisgarh

November 2022 - August 2026

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, C, C++, Solidity, Dart, HTML/CSS

**Tools:** NodeJS, ExpressJS, React, SQL, ArangoDB, MongoDB, Numpy, Pandas, scikit-learn, Android Studio, OpenGL

**Technologies:** GNU/Linux, Git, GitHub, Vim, Docker, Unreal Engine 5, Godot, AWS, REST APIs

**Relevant Courses:** Operating Systems, DBMS, AI/ML, Deep Learning, Gen AI, Computer Networks, Distributed Systems.

## EXPERIENCE

### Software Developer Intern

September 2025 - Present

*Pipeshub*

- Designed and deployed Dropbox and Bookstack connectors that handle seamless document synchronization and metadata extraction at scale, enabling efficient company-wide knowledge search through incremental updates, webhooks and filters.
- Optimized record deletion workflow by replacing iterative loops with a single AQL graph query in ArangoDB, improving efficiency by approx 55% and reducing execution time significantly.
- Developed a new permission workflow and refactored old code with the updated schema, adding support for inherited permissions for complex entity relationships and ensuring accurate access control.
- Tools Used: ArangoDB, Qdrant, Jira, Postman, Docker

### Unreal Engine Developer Intern

August 2024 - November 2024

*Zetrance*

- Collaborated with 2 teammates to design and develop VR simulation environment for EV battery manufacturing in Unreal Engine 5.0 which included developing the main menu and an interactive safety tutorial.
- Deployed an interaction system that dynamically mirrored real-time instructions from widgets onto 2 physical models.
- Tools Used: Unreal Engine 5.0, Figma, Github

## ACHIEVEMENTS

- **1<sup>st</sup> in AI/ML track**, Hack-o-Harbour Hackathon, 2024 for **JobQuest**, an AI-based resume tracking app.
- **2<sup>nd</sup> in Industry Academia Meet Hackathon**, 2025, IIIT Naya Raipur for **Carbon Credits**, among 15+ teams.
- **1<sup>st</sup> in CTF** at IIIT Naya Raipur Tech Fest, 2025. Solved 16 out of 17 including blockchain and reverse-engineering problems.

## PROJECTS

### Carbon Credits | Blockchain, Web3, React

January 2025 | [github](#) | [demo](#)

- Developed a decentralized carbon trading platform enabling transparent, secure transactions for **CSR activities**.
- Designed smart contract workflow in **Solidity** enabling NGOs to register carbon capture projects for credits, followed by a multi-auditor voting system for verification, after which credits can be traded in the market with 10% royalty on resale.
- Estimated to **reduce fraud** in carbon markets by **44 to 54%** through enhanced transparency and accountability.

### Athleo | Android Studio, Flutter

September 2024 | [github](#)

- Developed a fitness tracking app using Flutter featuring **real-time activity tracking**, personalized running routes, and **AI-powered coaching** to boost user engagement and improve user consistency.
- Leveraged Google Maps API for route generation and Gemini API for tailored coaching based on user metrics.
- Created a gamified reward system with 7-day activity tracking, leader-boards, and real-time metrics, enabling users to earn coins for completing challenges.

### Real-time Behavior Analysis | Computer Vision, Python, OpenCV

April 2024 | [github](#)

- Engineered composite ML model in **Python 3.12** to assess teacher and student behavior, enhancing classroom engagement.
- Achieved **90%** pose detection accuracy using Google's **Mediapipe** for posture and motion tracking.
- Integrated **TensorFlow** for facial recognition, trained on MIT OCW lectures, achieving **81%** accuracy.

### JobQuest | Web Development, AI

February 2024 | [github](#) | [demo](#)

- Collaborated with a team of 4 to build an AI-driven recruitment platform that automates resume screening, reducing pre-interview work by approximately **70%** using AI based resume and skill evaluation.
- Incorporated Google's **word2vec** model and cosine similarity to calculate resume scores with **85%** accuracy.
- Utilizes a **two stage** process: comparing applicant's resume with the job-role, followed by skill test generation using Google's **Gemini API** to rank the candidates based on suitability. Increasing efficiency by **50%** over traditional screening.