Harshit Jaiswal

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Education

IIIT, Naya Raipur — Naya Raipur, Chhattisgarh
Bachelor of Technology in Computer Science — *November 2022 - August 2026*
CGPA: 8.59 (up to 7th semester)

Technical Skills

Languages: TypeScript, JavaScript, Python, C, C++, Solidity, Dart, HTML/CSS
Tools: NodeJS, React, SQL, ArangoDB, Neo4j, MongoDB, Numpy, Pandas, scikit-learn, Android Studio, OpenGL
Technologies: GNU/Linux, Git, GitHub, Vim, Docker, Kafka, 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 AI

- Developed and scaled 8 enterprise connectors (incl. SharePoint, OneDrive, Gmail, Google Drive), handling complex permissions and hierarchical data; validated on 10k+ SharePoint files (100+ sites), 9k+ emails.
- Led architectural refactoring across connector and data pipeline systems reducing 17k lines of code and consolidating 20 files to 4 modules, significantly improving maintainability, consistency, and scalability for future feature development.
- Developed an anti-bot resilient web crawler indexing 5k+ pages across 15+ sites using multi-strategy retries, with optimized HTML and image extraction for indexing; implemented hierarchical permission inheritance (6 levels) across 10+ connectors.
- Tools Used: Neo4j, ArangoDB, Qdrant, Kafka, Docker, Postman

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

- **1st in AI/ML track**, Hack-o-Harbour Hackathon, 2024 for **JobQuest**, an AI-based resume tracking app.
- **2nd** in **Industry Academia Meet** Hackathon, 2025, IIIT Naya Raipur for **Carbon Credits**, among 15+ teams.
- **1st 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.