

Bikram Tripathi

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Summary

B.Tech Computer Science graduate with a strong passion for software and game development, bringing hands-on experience in full-stack web development, computer vision, and AI. Possesses a solid foundation in algorithms, data structures, and system design. A quick learner and enthusiastic problem-solver, eager to contribute to impactful tech projects.

Technical Skills

Programming Languages: Python, C, C++, JavaScript, C#

Web Technologies: HTML, CSS, React, Node.js, Express, MongoDB, .NET

Database Management: MySQL, Firebase

Tools & Platforms: Git, GitHub, VS Code, Unity, Godot, Jupyter, Flask, YOLOv8, OpenCV, Linux

Education

Bachelor of Technology in Computer Science and Engineering

2021-2025

Regional Institute of Science and Technology, Meghalaya

CGPA: 8.37/10.0

Delhi Public School, Jamshedpur

2019 – 2021

CBSE (12th – 74%)

CBSE (10th – 76%)

Projects

• Accident Detection System (YOLOv8 & Optical Flow)

- Developed a deep-learning system for real-time CCTV accident detection leveraging YOLOv8 and Optical Flow techniques.
- Implemented robust data preprocessing, annotation, and model comparison strategies to optimize detection accuracy.

• Car Showroom Management App (.NET)

- Engineered a desktop application using C# and the .NET framework for comprehensive car inventory and sales management.
- Integrated full CRUD (Create, Read, Update, Delete) functionalities with a database to streamline record keeping and customer details.

• Gate Logic Maze RPG (Game Development)

- Created a 2D logic-puzzle RPG in Godot, challenging players to solve gate-logic mazes for progression.
- Features include player statistics, a hunger system, dynamic boss levels, and innovative map navigation via SONAR mechanics.

• Browser Extension for Visually Impaired Users

- Developed a Chrome extension utilizing face recognition to identify and assist visually impaired users.
- Provided voice-guided actions and enhanced accessibility features for improved browsing experiences.

Certifications

• Python for Data Science and Machine Learning Bootcamp – Udemy (2022)

• Introduction to Large Language Models – Google (2023)

• Programming with C and C++ – Internshala (2023)

• Web Development with MERN Stack – tuteDude (2025)

Achievements

• Secured 1st place in Esplendidez (2022) and Kairos (2024), coding competitions organized by RIST.

• Achieved 2nd place in CodeFusion (2023), a competitive programming event at USTM.

• Appointed Head of the Coding Club, RIST (2024–25), fostering a vibrant coding community.