

Gaurav Jain

B.Tech (3rd Year) | Software Developer | AI & Full Stack Enthusiast

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Profile Summary

A passionate and self-driven Computer Science Engineering student with a minor in Financial Economics, focused on backend development, data structures, and algorithms. Proficient in Python, Java, JavaScript, and React, with hands-on experience in developing full-stack applications and machine learning models. A consistent problem solver with a 100+ day streak on LeetCode, actively participating in competitive programming contests. Strong understanding of cloud technologies, system design, and version control systems. Eager to contribute my skills and learn in a fast-paced, real-world environment while solving challenging problems and building innovative solutions.

Skills

Programming Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL, Bash

Web Development: MERN Stack (MongoDB, Express, React, Node.js), Flask, REST APIs

Machine Learning: TensorFlow, Scikit-learn, Data Preprocessing, Model Training

Data Structures & Algorithms: Arrays, Linked Lists, Trees, Graphs, Dynamic Programming

Cloud Computing: AWS, Docker, Kubernetes, Cloud Architecture

Version Control: Git, GitHub

Database Management: MongoDB, MySQL, PostgreSQL

Tools: Postman, Jupyter, PyCharm, VS Code

Projects

Carbon Footprint Tracker (React, Flask, MongoDB, TensorFlow)

- Built a real-time carbon tracking app that estimates carbon emissions from transportation, shopping, and daily habits.
- Integrated barcode scanning to track product footprints and GPS-based emission tracking for transportation.
- Designed an ML-powered recommendation engine to suggest eco-friendly alternatives.
- Gamified experience with leaderboards and partnerships with eco-friendly brands.

DSA Visualizer (Python, React, D3.js, Flask, WebSockets)

- Created a visual interactive tool to help users understand sorting, searching, and graph algorithms.
- Implemented step-by-step execution animations with WebSockets for real-time feedback.
- Used D3.js for dynamic graph visualization of trees, linked lists, and recursion.

File Compression Utility (Python, Huffman Coding, Bit Manipulation)

- Built a lossless file compression tool using Huffman Encoding for efficient storage.
- Implemented bitwise operations to optimize encoding and decoding performance.
- Achieved ~40% average compression ratio for text and binary files.

Certifications & Training

- Business Analytics for Decision Making – University of Colorado Boulder
- Strategy and Game Theory for Management – IIM Ahmedabad
- Introduction to Generative AI – Google
- AWS Cloud Operations Course Certificate – AWS
- Android Developer Virtual Internship – Google for Developers & AICTE
- Digital Marketing – ExcelR

Achievements

- 100+ Days Streak on LeetCode: Consistently solving problems and improving algorithmic skills, currently holding a 100+ days streak.
- Conference Paper: Co-authored a paper titled "Exploring Low Latency Communication Protocols" (currently under review for publication).
- Hackathon Participation: Participated in Smart India Hackathon 2024, demonstrating innovative problem-solving abilities.

Education

B.Tech Honors in **Computer Science Engineering** (3rd Year, KIIT DU) – **CGPA: 8.3**

- Minor in Financial Economics** (Specializing in Data Analytics)
 - Relevant Courses: Cloud Computing, Machine Learning, Operating Systems, DBMS, DSA
- GVN The Global School (12th, 2022)
Delhi Public School, Neelbad, Bhopal (10th, 2020)