

Shantanu Singh

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Portfolio • GitHub • LinkedIn • LeetCode

Education

Chandigarh University, B.E. in Computer Science Engineering

Aug 2022 – Present

CGPA: 7.7 / 10

MS Public School (CBSE - 12th)

2022

Percentage: 71%

Dr. MPS World School (CBSE - 10th)

2020

Percentage: 70%

Professional Highlights

- Solved 300+ LeetCode problems (70+ medium/hard), increasing coding efficiency by 40%.
- Built and deployed 6+ projects, including 3 hosted online and 2 used by students in real scenarios.
- Fixed 50+ bugs and resolved integration issues during full-stack builds using React, Node.js, and SQL.
- Delivered 4 working prototypes within 36-hour hackathons (HashHacks 6.0, HackFest'24, Codex), reaching finalist stage twice.
- Automated workflows using shell scripts and data pipelines; reduced manual testing effort by 30%.
- Completed certifications in Python, Java, C++, DBMS, Web3, and IoT via hands-on capstones.

Skills

Languages: C++, Python, Java, JavaScript, Bash, SQL

Frameworks/Libraries: Spring Boot, Node.js, React.js, Express.js (familiar), Flask (explored)

Web & Backend: HTML, CSS, REST, Bash, Linux

Databases: MySQL, Redis

Tools & DevOps: Git, Postman, MySQL Workbench, VS Code

Cloud & Others: AWS (basic), PHP, Solidity, Rust (familiar)

Core Abilities: Debugging & Issue Resolution, Root Cause Analysis & Logical Reasoning, Cross-Team Collaboration & Stakeholder Coordination, Rapid Technology Learning & Application

Projects

DevConnect – Team Collaboration Tool

Oct 2024

React, Node.js, MongoDB, Socket.io

- Built real-time dashboard with chat, task boards, JWT authentication, and MongoDB sync.
- Integrated 5+ REST APIs with persistent message logging and task status tracking.

Real-Time Voice Cloner

Mar 2024

Python, TensorFlow, PyTorch

- Replicated human voice from 10s audio using deep learning models.
- Achieved near-human synthesis quality with 85% similarity (ABX test).

Emotion-Based Music Recommendation (EDMRS)

Dec 2022

Python, OpenCV, Spotify API

- Suggested songs using facial emotion detection with 85% accuracy via OpenCV and ML classifier.
- Improved playlist satisfaction by 20% (from user feedback survey).

Other Projects: LMS - Smart Attendance System - Face Recognition with OpenCV

Research Work

Brain Stroke Prediction Model

Aug 2024

Random Forest, SVM, Logistic Regression

- Identified stroke risk from healthcare data with 82% precision using ensemble learning.
- Automated preprocessing reduced manual steps by 40% and generated 15+ insights.

Heart Disease Prediction Model

Dec 2023

KNN, Decision Trees, Neural Networks

- Developed classifier with 78% F1-score using vitals and lifestyle data.
- Improved AUC by 12% through hyperparameter tuning and model optimization.