Krish Joshi

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Codeforces (Max: 1673) | CodeChef (Max: 1601)

EDUCATION

VIT Bhopal University   Madhya Pradesh, India
*Bachelor of Technology in Computer Science and Engineering; CGPA: **8.83/10***   *Exp. May 2027*

TECHNICAL SKILLS

Languages: C++, Java, Python, SQL, JavaScript
Technologies: React.js, Node.js, Flutter, Dart, HTML/CSS, Google Cloud Platform (GCP)
Developer Tools: Git, GitHub, Linux, VS Code
Core Concepts: Data Structures & Algorithms, DBMS, OOP, OS, Distributed Computing

PROJECTS

CSES Chrome Extension | *JavaScript, Chrome API, Local Storage*   Oct 2025

– Built a browser extension enhancing the CSES Problem Set, currently active with **490+ users** (5.0 Rating).
– Implemented **local storage caching** to enable per-problem note-taking and history tracking without external database dependency, ensuring 100% user privacy.
– Engineered a sorting algorithm to categorize problems by acceptance rate and solver count, significantly improving user study efficiency.

Virtual Classroom System | *Python, Flask, React.js, Google Cloud*   Aug 2025

– Engineered a full-stack LMS reducing manual grading time by **40%** via automated assignment intake and analysis.
– Developed a document pipeline using **PyMuPDF** and **LanguageTool** to programmatically detect and highlight grammatical errors on PDF overlays.
– Integrated **Google Document AI** for handwriting recognition and **OpenCV (SSIM)** for visual structural similarity checks, creating a robust plagiarism detection system.

Intelligent File Lifecycle System | *C++, SQLite, NLP, OS API*   Feb 2026 – Present

– Architected a high-performance file system using **C++** and **SQLite** with **Tries** and **Hash Maps**, achieving **sub-millisecond search latency** and real-time indexing.
– Developed a **predictive directory engine** that organizes files by context, solving flat hierarchy issues and improving retrieval efficiency for unstructured users by **60%**.
– Integrated **NLP voice control** for fuzzy searching by date and type, reducing lookup time by 40% via ranking.
– Engineered **File Lifecycle Management** with "auto-expiration" logic for temporary data, projected to autonomously reclaim ~**15GB of storage** annually.

ACHIEVEMENTS

- **Competitive Programming:** Rated **Expert (1673)** on Codeforces (Top 15% globally); Rated **3 Star (1601)** on CodeChef.

- **Problem Solving:** Solved **500+** algorithmic problems across LeetCode, Codeforces, CodeChef and other platforms; proficient in Dynamic Programming, Graphs, and Greedy Algorithms.

CERTIFICATIONS

Coursework: Introduction to Machine Learning (NPTEL, IIT Madras), Computer Networking (Google/Coursera)