Krish Joshi

joshikrish533@gmail.com | +91-9137143646 | LinkedIn: krish-joshi | GitHub: krish-vj
Codeforces: krish_joshi (Max: 1673) | CodeChef: krish_vj (Max: 1601)

Education

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

- **Relevant Coursework:** Data Structures & Algorithms (DSA), Operating Systems, DBMS, Computer Networks, Theory of Computation, Object-Oriented Programming (OOP).

Technical Skills

Languages: C++, Python, Kotlin, JavaScript (ES6+), Dart, SQL (PostgreSQL, SQLite), HTML/CSS
Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Tailwind CSS, Flutter, Prisma ORM, Mongoose
Tools & Platforms: Git, GitHub, Linux (Ubuntu), VS Code, Postman, MongoDB Compass, REST APIs
Core Concepts: Data Structures, Algorithms, System Design, Competitive Programming, SOLID Principles

Projects

CSES Chrome Extension | *Chrome Web Store (490+ Users, 5.0 Rating)* May 2024

- Developed a browser extension to enhance the CSES Problem Set interface, currently facilitating 490+ active users.
- 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, improving user study efficiency.
- **Technologies:** JavaScript, HTML5, CSS3, Chrome Extension API, Local Storage, JSON.

Virtual Classroom Management System Nov 2024

- Built a full-stack LMS platform enabling assignment submission and automated grading workflows.
- Integrated **OCR (Optical Character Recognition)** using Python to extract text from handwritten PDF submissions for automated relevance checking.
- Developed algorithms to detect similarity between submissions, reducing plagiarism by providing detailed overlap reports.
- **Technologies:** Python, Flask, React.js, Tailwind CSS, Tesseract OCR, REST APIs.

Smart File Search & Storage System Jan 2025 – Present

- Developing a high-performance desktop file manager with sub-millisecond search latency using **C++** and **SQLite**.
- Implemented **Hash Maps** for O(1) file lookups and **Trie Data Structures** to power real-time predictive autocomplete.
- Designed a background file system watcher (incremental indexing) to keep the search index synchronized with OS changes in real-time.
- **Technologies:** C++, SQLite, Data Structures (Tries, Hashing), Windows API, System Design.

Achievements

- **Competitive Programming:** Achieved Max Rating **1673** (Expert) on Codeforces (Top 15% globally).
- **Problem Solving:** Solved **500+** algorithmic problems across LeetCode, Codeforces, and CodeChef; proficient in Dynamic Programming, Graphs, and Greedy Algorithms.
- **Chess Strategy:** Rated **2150** on Chess.com (Rapid), ranking in the top **0.1%** of players globally; demonstrates strong strategic planning and pattern recognition.

Certifications

- **Introduction to Machine Learning** – NPTEL (IIT Madras) *May 2025*
- **The Bits and Bytes of Computer Networking** – Google (Coursera) *Nov 2025*