Krish Joshi

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Profile Summary

Third-year Computer Science student with strong fundamentals and hands-on experience in building full-stack solutions, integrating APIs, and solving complex engineering problems. Proficient in Python and eager to learn security concepts like authentication and reliability. Self-motivated problem-solver with a passion for startups, seeking to contribute to innovative identity and access management projects at BalkanID through prototyping, custom development, and client integrations.

Education

- **VIT Bhopal University** — Madhya Pradesh, India
  B.Tech in Computer Science and Engineering; CGPA: 8.58/10 — *Expected May 2027*

  Previous Education: *XII (SSC) 83% (2023), X (SSC) 84% (2021)*

Skills Summary

- **Languages:** Python, C++, Kotlin, SQL (PostgreSQL, SQLite), HTML, CSS, JavaScript, TypeScript, Dart
- **Technologies:** MERN Stack (MongoDB, Express.js, React, Node.js), Flask, Tailwind CSS, Prisma ORM, Git, Linux, Flutter
- **Skills:** Strong Computer Science fundamentals, Excellent problem-solving for unconventional challenges, Competitive Programming, API integration and development, Database management, Debugging and testing

Projects

- **Virtual Classroom Management System**:
  - Developed a full-stack prototype for educational needs using Python, Flask backend, React frontend, and Tailwind CSS, integrating OCR (Microsoft Vision) for document analysis and an LLM for real-time feedback.
  - Implemented custom code for processing handwritten PDFs, evaluating content relevance, and generating plagiarism reports by comparing submissions.
  - Integrated external APIs like Google Document API and computer vision technologies to enhance functionality, demonstrating ability to build and integrate solutions for unique requirements.
  - Engineered a comprehensive system for automated grading and feedback, including debugging, user testing, and maintenance features to ensure reliability.
  - Deployed the platform to streamline educator workflows, showcasing end-to-end development from prototype to functional solution.
- **File Search System (In progress)**:
  - Building a high-performance desktop application using C++ for core indexing, SQLite for persistent storage, and Python Tkinter for UI, focusing on efficient data structures like hash maps, Tries, and suffix trees.
  - Leveraging indexed database queries for fast lookups and planning incremental updates with file system watchers, addressing real-time integration challenges.
  - Designing for O(1) performance in file path retrieval and extension-based searches, with emphasis on debugging and optimizing for large-scale file systems.
- **Android Attendance App (In Progress)**:
  - Developing an Android application using Flutter with integrated face recognition using OpenFace DNN model for automated attendance tracking.
  - Integrating PostgreSQL database for secure storage and management of records, including custom code for facial identification and attendance marking.
  - Building a robust pipeline for detection and recognition, with focus on reliability, testing, and potential deployment in multi-user environments.

Achievements

- **Codeforces:** Rating 1350 (Specialist) — codeforces.com/profile/krish_vj
- **LeetCode:** Solved 160+ problems — leetcode.com/u/krish_vj/
- Consistently placed in the **top 5%** in university-level coding contests and hackathons, demonstrating strong analytical and creative problem-solving skills for unconventional challenges.
- **Competitive Chess Player:** chess.com Rapid Rating of 2100, highlighting strategic thinking and ability to work under pressure.