# Sahej Walia

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## Education

**VIT Bhopal University**, B.Tech in Computer Science Engineering                    Oct 2022 – May 2026
- GPA: 8.55/10.0

## Skill Summary

**Languages:** C++, TypeScript, JavaScript, Python, SQL
**Database Systems:** MongoDB, MySQL
**Tools:** Flask, Express.js, Docker, Git, RESTful APIs, JupyterLab
**Concepts:** Distributed Systems, Cloud Computing, Object-Oriented Design, Test-Driven Development
**Soft Skills:** Team Collaboration, Agile Development, Technical Communication, Leadership

## Projects

**ScratchDB**                                                                                  github/scratchDB
- Implements fundamental database indexing techniques using Binary Trees and Hash Functions.
- Focuses on optimizing search performance demonstrating practical algorithm application.
- Provides a good learning example for database internals and data structure efficiency.
- Primarily written in C++, showing effective use of a powerful language for system-level programming.

**CloudNet**                                                                                    github/cloudNet
- Developed a cloud ephemeral storage server using Express and TypeScript, enabling fast and temporary file storage and distribution.
- Integrated scheduled cleanup jobs to automate resource management and maintain storage efficiency.
- Implemented multiple backend services within a modular architecture for scalable and maintainable cloud storage.
- Published a production-ready open-source project under MIT license, enhancing accessibility and collaboration.

**StudioJS**                                                                                     github/studioJS
- Built a fullstack browser-based JS utility tool for real-time code execution and documentation generation.
- Engineered in-browser transpilation and bundling to enable dynamic JavaScript module loading from registries.
- Developed with TypeScript for type safety and maintainability, improving developer productivity.
- Published open-source with MIT license for community use and collaboration on advanced JS tooling.

## Achievements and Certifications

**IBM DevOps, IBM**
  https://courses.ibmcep.cognitiveclass.ai/certificates/4bcd307d0a3c454c8c194747262e5d44

**IBM Agile and Design Thinking**
  https://courses.ibmcep.cognitiveclass.ai/certificates/7fc9d5d13dd040348f9e3757195ee38f

## Positions of Responsibilities

**Core Member - Event Management, VITKULT Club**
- Served as a core member of the VITKULT Club's event management team, coordinating and executing cultural events to ensure smooth operations and high participant engagement.

**Prxix, CCO**
- Developed and optimized scalable backend features and RESTful APIs using Flask and MongoDB, integrating secure workflows for user authentication and client–admin interactions.