# Utkarsh Raj

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## EDUCATION

**B.Tech - Computer Science and Engineering |** VIT Bhopal University  (2023 – 2027)          **CGPA:** 8.86 / 10

**Class XII (CBSE)** |( 2022) |                                                                                    **Percentage:** 92.40%

**Class X (CBSE)** | (2020) |                                                                                      **Percentage:** 93.40%

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## TECHNICAL SKILLS

**Programming Languages**:  C++, Python,  Java, JavaScript
**CS** : DSA, OOPS, OS, DBMS, CN
**Development :** Backend Developement
**Platform** : Linux, Windows
**Tools:** Git, Bash

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## PROJECTS

**VITravels (Ongoing) |** Github
Real-time cab/auto pooling web app for VIT Bhopal students.
*Tech Used*: HTML, CSS, JavaScript, MongoDB, Express, ReactJs, Nodejs

**Rate Limiter Engine** |(Dec 2025) | Github

A high-performance, thread-safe C++ engine implementing multiple rate limiting algorithms (Token Bucket, Sliding Window) with per-client tracking, LRU-based eviction, stress testing, benchmarking, and Python-based visualization. Demonstrates advanced concurrency handling and system design concepts.
*Tech Used*: C++17, Mutex, Atomics, Python (pandas, matplotlib)

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## CERTIFICATIONS

**Google Cloud** – Generative AI Specialization

**Google IT support** professional certification

**Microsoft SC-900** - Microsoft security certification

## EXPERIENCE