

MAYANK KADAM

EMAIL | [GITHUB](#) | [WEBSITE](#) | [LINKEDIN](#)

EDUCATION

Pimpri Chinchwad College of Engineering, Pune | CGPA: 7.78 of 10.0

Aug 2023 - 2027

B.Tech in Information Technology | Third Year

SKILLS

Programming Languages: TypeScript | C++ | Go | Python | SQL

Course Work : Data structures and Algorithms | DBMS | Operating Systems | OOP

Infrastructure & Cloud: Docker | AWS (EC2, S3) | Cloudflare (DNS)

Web & Frameworks: REST API | Next.js (SSR, App Router, Dynamic Routes, API Routes) | Node.js | React | Tailwind | Supabase

PROJECTS

TermCall - Terminal-based WebRTC Video Calling | Go

<https://github.com/msk1039/>

Engineered a terminal-based P2P video calling app with ASCII-rendered video.

[termcall](#) ↗

- Built a low-latency **WebRTC media pipeline** that converts live webcam feeds into ASCII text and streams them over unreliable data channels, achieving stable video transmission at just **100 kbps**.
- Engineered a **full-mesh network topology** with a custom embedded STUN/TURN server, enabling complex NAT traversal and bypassing strict ISP firewalls by encapsulating P2P traffic over TCP port 443.
- Designed a **concurrent, event-driven terminal UI** capable of rendering asynchronous video frames, live bandwidth analytics, and active speaker visualizers without blocking the main application thread.

LaTeXAI - AI IDE for LaTeX | TypeScript

<https://latex-editor-two.vercel.app/> ↗

AI-Powered online LaTeX Document IDE

- Built a full-stack LaTeX IDE with integrated AI agent, enabling users to write and compile documents in-browser.
- Maintained **per-session conversation history** to give the AI context across edits, enabling iterative document refinement without repeating instructions.
- Wrote a **Node.js backend service** to handle concurrent LaTeX-to-PDF compilation requests, exposed via REST API and deployed on **AWS EC2**.

Redis-inspired In-Memory Key-Value Database | Go

<https://github.com/msk1039/redis-go> ↗

Implemented a subset of the Redis protocol and core commands.

- Built a Redis-inspired in-memory key-value database in Go implementing RESP parsing/serialization and core commands (PING, ECHO, SET, GET, TTL).
- Ensured concurrent-safe access using Go's **sync.Mutex**, with support for key expiration and TTL handling

ACHIEVEMENTS

DSA : Solved **500+** problems across several platforms like leetcode, hackerrank and codeforces

Codeforces Round 1103 : Ranked **6269** out of 30,000+ participants in an International Codeforces contest.

Codeforces : Attained a peak rating of 1036, <https://codeforces.com/profile/mayank1039>

Leetcode : Solved over 150+ problems with a rating of **1490** <https://leetcode.com/u/Mayank1039/>

Hackerrank : Secured **5 star** Badge for c++ <https://www.hackerrank.com/profile/mayankkadam1039>

Eparadox : Ranked **2nd** in a state-level competitive programming competition held at PCCOE

VOLUNTARY EXPERIENCE

GDGC PCCOE

gdgcpccoe.org ↗

Worked as a frontend developer and designer

2024 - 2025

- Organised state level inter-college coding contest during annual tech fest bringing in 200+ participants across different institutes