

Tejas Ramakrishnan

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EDUCATION

PES University, EC Campus

Bachelor of Technology in Computer Science and Engineering

- CGPA: 9.08/10

Aug 2023 — May 2027

Bangalore, India

Vyasa International School

Senior Secondary (Class 12)

- Score: 82.6%

2022 — 2023

Bangalore, India

Sindhi High School

Secondary (Class 10)

- Score: 95.4%

2020 — 2021

Bangalore, India

EXPERIENCE

Intern at The Innovation Lab

Research Intern

Bangalore, India

June 2025 — Present

- Improve existing Private Vector Search systems at scale using two phase search.
- Provide privacy with Homomorphic encryption.

PROJECTS

Huus: A persistent KV store, Golang

github.com/tejas-techstack/huus

- A persistent Key Value store written in Golang that uses B-plus tree.
- Supports Write Ahead Logging (WAL) and also supports ACID Properties to facilitate concurrency.

Psh : a Posix compliant shell, C

github.com/homebrew-ec-foss/psh

- Mentored a team of 5 members to build a POSIX compliant shell.
- Features include built in commands of BASH like aliases, autocomplete and history.

SmartGC: A pseudo garbage collector, C, Python

github.com/tejas-techstack/SmartGC

- Built during Ingenious Hackathon to detect and free unused memory in C-based programs.

SongPlaylist: MP3 Player, C

github.com/tejas-techstack/SongPlaylist

- Developed a simple MP3 player in C capable of playing local songs.
- Implemented audio playback and file I/O from scratch to understand low-level systems programming.
- Focused on using only standard libraries and terminal-based controls.

ACHIEVEMENTS

- Vice Chair of ACM chapter
- Git & GitHub Workshop Organizer – Conducted campus workshop explaining Git, PRs, merge conflicts, and GitHub usage
- 2nd Place, Ingenious Hackathon – SmartGC
- Special Mention, Delta Time Hackathon – 2D Multiplayer Racing Game (Godot)
- MRD Scholarship Recipient, PES University - Awarded for 1 semester based on academic merit
- CNR Scholarship Recipient, PES University – Awarded for 3 semesters based on academic merit

SKILLS

- **Programming Languages:** Go, C, C++, Python, SQL, JavaScript, HTML, CSS, Bash, Rust
- **Technologies:** git, postgresql, mysql, sqlite, FAISS, Microsoft SEAL, React, MongoDB, Express.js
- **Interests:** Distributed Systems, Database Internals, B+ Trees, LSM Trees, Parallel Programming