

Aditya Hegde

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SUMMARY

I am an undergrad computer science engineer studying in PES University. I have a huge interest in system level projects and working with distributed systems, networking and databases. As a fresher I am still exploring new concepts to challenge myself.

EDUCATION

PES University ECC (GPA: 9.03/10.0) (2023 - present)

- Perusing B.Tech in *Computer Science Engineering*
- Awarded *CNR-Rao* for three semesters

New Horizon Gurukul (95%) (2015 - 2023)

- Recieved distinction in CBSE PCMC stream

SKILLS

Languages C, GoLang, Rust, Python, Html, CSS, Javascript

Technologies Git, MySQL, Sqlite, Docker, CI

EXPERIENCE

Developer Mar 2024 - Apr 2024

Participated in ACM's 6 week industrial program organised by the student club.

- The program provided a platform to develop an industrial level application, and learn from working as a team to create a solution from a problem statement in the given time frame.
- Worked in a team of 4 in building a static site generator purely written in go
- Achieved industry level benchmarks compared to other SSG's like Hugo and eleventy
- Collaborated on working on features such as back-links, TDD rebuild, indexing, Deep Data Merge

Mentor Oct 2023 - present

ACM PESUECC Student Chapter

- Part of the technical mentor and designing team
- Assistance in organising club activities
- Completed the 6 week industrial experience program - AIEP
- Worked on the core functionality of the backend([bunsamosa bot](#)) for a hackathon.

Mentor Aug 2023 - present

HSP PESUECC

- Part of the technical mentor and design team
- Assistance in running club activities
- Presented projects in the project expo and fireside talks
- Part of the mentor panel for a project part of [Tilde 3.0](#) - a 5 week internship program

PROJECTS

Quaso

[Github](#)

A from scratch implementation of the [Raft Consensus Algorithm](#) to handle consensus over a generic log. Built on top of [tokio.rs](#) an async runtime.

Meerkat

[Github](#)

(WIP) A distributed peer-to-peer, written in Golang network enabling data synchronisation between all nodes. It is made to provide a communication base for future projects

Anna

[Github](#)

A blazing fast static site generator written in go. The goal was to provide a feature rich ssg while beating industry standard benchmark render times.

xkcd-grab

[Github](#)

A unique cli application with fuzzy matching, web scraping and using local LLM to summaries xkcd comic snippets from images alone

Yake

[Github](#)

A minimal programming language written in C, making users perform arithmetic and printing operations with pointers

Net Nest

[Github](#)

A machine learning model, written in python, for hate speech analysis for social media filters. The demo for the application demonstrates its working along with a simple local hosted chat application.