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)

- Pursuing 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. Worked in a team of 4 in building a static site generator purely written in Go.

Mentor   Oct 2023 - present

ACM PESUECC Student Chapter
- Completed the 6 week industrial experience program - AIEP
- Worked on the core functionality of the backend(bunsamosa bot)

Mentor   Aug 2023 - present

HSP PESUECC
- Presented projects in talks and was part of the mentor panel for Tilde 3.0
- Part of the team to build (event loop) for handling event checkpoints

PROJECTS

muBonda   Github

(WIP) MPCA(Micro-processor and Computer Organization) Project focused on building a kernel space KV store specifically for raspberry pi 5

Forklift   Github

(WIP) a buffer pool manager in rust

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 esoteric 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.

CONTRIBUTIONS

Bunsamosa Bot [Github](#)

The official bot for ACM PESUECC Hacknight events

Eventloop [Github](#)

The goal of the project was to make overnight event checkpoint keeping automated. Worked on bringing up the backend and a bit of the frontend

Saturn [Github](#)

Forked from [anirudhRowjee/saturn](#). Saturn is an in-memory timer daemon that waits for sometime and sends an HTTP request when it's done.