

Aditya Hegde

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Summary

I am an undergrad computer science engineer studying in PES University. I have a huge interest in systems and have been working with distributed systems, networking and databases. As an undergrad I am still exploring new concepts to challenge myself and looking for more opportunities.

Education

PES University (9.00/10.00) (2023-present)

- Pursuing B.Tech in Computer Science Engineering
- Awarded CNR-Rao for four semesters

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

- Recieved distinction in CBSE PCMC stream

Skills

Languages • C, GoLang, Rust, Python, Html, CSS, Javascript
 • Zig (Learning)

Technologies Git, MySQL, SQLite, Docker, CI/CD

Experience

PES Innovation Lab (prev. Microsoft Innovation Lab) Aug 2025 - present
Member

Research Intern Jun 2025 - Aug 2025
Worked on introducing an operating system on the Raspberry Pi Pico micro-controller. Introduced a novel approach of loading programs dynamically at runtime.

Twospoon.ai *Project Intern* Apr 2025
Worked on building the framework for a abstracted orchestrator service for Proxmox for controlling lifetimes of servers. Project spanned 2 weeks

HSP PESUECC Jun 2025 - present
Core Team Lead

- Overseeing functioning and contributions to the club
- Part of the organizing team of Tilde 4.0

Mentor Sep 2023 - May 2025
• 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

ACM PESUECC Student Chapter Aug 2023 - present
Mentor

- Completed the 6 week industrial experience program - AIEP
- Worked on the core functionality of the backend([bunsamosa-bot](#))

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.

Projects

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

forklift A buffer pool manager written in rust

Quaso 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 (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 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

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

Net Nest 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 The official bot for ACM PESUECC Hacknight events

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

last updated 14 Aug, 2025