# Aditya Hegde

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## Education

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

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

## Skills

| | |
|---|---|
| **Languages** | C, GoLang, Rust, Python, Html, CSS, Javascript |
| **Technologies** | Git, MySQL, SQlite, Docker, CI/CD |

## Experience

**PES Innovation Lab** *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** *Core Team Lead*         Jun 2025 - present

Overseeing functioning and contributions to the club. Coordinating events such as TILDE, workshops, promoting FOSS culture and focusing on growing the community.

*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** *Mentor*         Aug 2023 - present

Worked on the core functionality of the backend(bunsamosa-bot) for events, mentored workshops and hackathons

**ACM PESUECC Student Chapter** *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. (repository)

## Projects

**codd** (WIP) A relational algebra evaluator written in rust. A basic toy implementation using projections.

**mu-bonda** Project focused on building a kernel space KV store specifically for Raspberry Pi 5.

**Quaso** An implementation of the Raft Consensus Algorithm. Built on top of the tokio.rs async runtime. Built as a cargo crate to provide strong consensus for serializable data-types for Rust.

**Meerkat** (WIP) A distributed leaderless cluster, synchronizing directories across all peers. Written in GoLang, and using gRPC for RPC calls across the cluster.

**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 capable of basic arithmetic operations and debugging.

**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 24 Sep, 2025