

ANIRUDH SUDHIR

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EDUCATION

Bachelor of Technology, Computer Science

PES University - CGPA: 9.59

Awarded the MRD scholarship thrice for academic excellence.

2023 - 2027

Bangalore, India

SKILLS

Languages Rust, Go, C, SQL, HTML, CSS, JavaScript

Technologies Docker, eBPF, Git, Github, SQLite

EXPERIENCE

Bytebeam

Systems Engineering Intern

February 2025 - April 2025

- Worked on the next-generation of [rumqtte](#), a Rust-based MQTT client.
- Redesigned the architecture for the transport layer of rumqtte and implemented it with tests, for optimised memory usage and a simpler interface.

PES Innovation Lab

Project - HyperDistillation

July 2024

- Collaborated in a team of two to develop HyperDistillation, a Golang tool to trace network traffic between containers and hosts outside of a Kubernetes cluster, using Inspektor Gadget, a series of eBPF-based programs, along with filtering and graph generation.

ACM Industrial Experience Program

Student Developer

March 2024 - April 2024

- Worked in a team of four to build [anna](#), a static site generator written in Go as part of AIEP, an annual mentorship program, where the development pipeline used in the industry is emulated for a variety of projects.
- Collaborated on various features such as live reload, collections and tags and worked on TDD-backed rebuild of the project to improve performance and maintainability.

PROJECTS

Raft: An implementation of the Raft consensus algorithm for distributed systems as a library in Go, with a distributed key-value store implementation.

Hobbes: A Bitcask-like log-structured key-value store with an in-memory index, written in Rust. Delivered a talk on this project at the October 2024 Rust Bangalore Meetup.

Anna: Anna is a highly performant static site generator written in Go, capable of beating Eleventy and Hugo on certain benchmarks. It includes features such as parallel rendering, live reload and collections.

Snoopy: A VPN utilising the tun interface, written in Rust. Delivered a lightning talk on this project at the March 2025 Bengaluru Systems Meetup.

Spidey: A concurrent web crawler written in Go with a consistent crawl rate of over 10,000 links per minute. During a run, Spidey discovered 16,000 links in a minute.

Sqlite-parser: A parser for SQLite3 DB files, written in Rust.

Qapture: Qapture is a C-based command line tool to recover deleted JPEGs from a forensic RAW image.

VOLUNTEERING

Technical Mentor

October 2023 - Present

HSP - Hackerspace PESU ECC

- Co-hosted a [workshop](#) on eBPF, where participants understood the need to program the kernel and wrote simple applications to trace syscalls and network packets respectively.
- Delivered talks on the projects [Qapture](#) and [anna](#) at the HSP Mentor Expo and Fireside Talks respectively.

Member

Sep 2023 - Present

ACM PESU ECC

- Contributed to bun-samosa bot, a Golang-based bot used for ACM PESU-ECC's flagship hackathon, Hacknight.
- Assisted in the conduction of events at the student chapter of the ACM at PES University Electronic City Campus.