

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

February 2025 - Present

Systems Engineering Intern

- Working on the re-architecture of [rumqtte](#), an MQTT client in Rust, for improved performance and memory usage.

PES Innovation Lab

July 2024

Project - HyperDistillation

- 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

Mar 2024 - Apr 2024

Student Developer

- 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.

Technical Mentor

Oct 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.

PROJECTS

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.

MIT Distributed Systems Labs: A series of labs accompanying the graduate coursework on distributed systems, including a Raft implementation.

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.

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.

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