

Anirudh Rowjee

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EDUCATION

- **PES University** Bangalore, India
Bachelor of Technology, Computer Science and Engineering 2020 - 2024

EXPERIENCE

- **PES Innovation Lab** Bangalore, India
Project Intern - PseudoDeploy Jun 2022 - Aug 2022
 - **PseudoDeploy Library:** Spearheaded the design and implementation of Pseudodeploy, a python library to allow easy emulation of arbitrary federated learning deployments enabled by Kubernetes.
 - **PseudoDeploy Build Infrastructure:** Designed and Implemented Docker Image Build toolchain to utilize Multi-Stage Docker Builds for efficient, customizable Federated Learning Client and Server Image Builds.
- **Microsoft Technology Center** Bangalore, India
Student Developer Apr 2022 - Jun 2022
 - **IoT-based Real-Time Hydroponics Monitoring System:** Spearheaded the Design and Implementation of a real-time IoT Based Hydroponics Monitoring system, enabled by the Azure stack. Worked on Power BI, Stream Analytics, Azure Event Hub

PROGRAMMING SKILLS

- **Languages:** Python, Rust, HTML, CSS, JavaScript, C, Golang, SQL **Technologies:** Git, Github, React, Django, Express, MySQL, Linode

PROJECTS

- **Jumpnet:** A Golang clone of Kafka that uses the Raft Consensus Algorithm to pass messages between different brokers
- **Saaru:** Saaru is a static site generator like Eleventy/Jekyll written in Rust. It features a minimal Deep Data Merge and renders a website with 50 files in 35ms
- **BunSamosa-Bot:** A Github Bot and REST API to process comments on Pull Requests and maintain a leaderboard, written in Golang and using SQLite
- **Displacement:** A minimal FTP Client Written in Rust, Implemented per IEEE RFC 959 - works with most popular FTP Servers as a command-line interface tool
- **E2EE Toolkit:** Flask-based Web Application implementing the Diffie-Hellman-Merkle Key Exchange and End to End Encryption between users in a chat application. Implemented encryption from scratch.
- **Hypeviewer:** A Rust clone of the pipeviewer Linux utility, utilizing multithreading, cross-thread communication and concurrency to efficiently display statistics
- **Electronic Election System:** A Django-based full-stack web application to conduct and run student council elections, designed to allow multiple students to vote at once.

RESEARCH INTERESTS

Databases, Distributed Systems

VOLUNTEERING EXPERIENCE

- **Core Team Lead, HackerSpace PESUECC:** Club head of HackerSpace PESUECC, a student-run developer community with an Open-Source wing.
- **Vice-Chairperson, ACM PESUECC:** Vice-Chairperson of the Student Chapter of the ACM at my University, ACM PES University Electronic City Campus