

# PRITISH SAMAL

B.Tech | NIT Rourkela

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## WORK EXPERIENCE

MLH Spring'22 Prep Fellow

📅 Jan 2022 – Feb 2022

### Major League Hacking - Fellowship

- A 3 week intensive program, collaborated with 15+ students from 4 different countries. Built out a portfolio of projects, experimented with new technologies (React, Jekyll, Rust, Python) during a short, impactful hackathon sprint.
- Lead the frontend team with delegating tasks, conducting daily stand-ups in order to build a highly performant & responsive website.

Software Development Intern

📅 Sep 2021 – Nov 2021

### Cloud Native Computing Foundation - Kyverno

- As a Linux Foundation Mentee, I worked on extending the test command of CNCF - Kyverno (a kubernetes native policy management engine) to cover generate policies and improving its test coverage
- Drafted a structure of test.yaml to generate policies taking into consideration the existing test command workflow
- Then, worked on extending the test command to cover generate policies using Go, kubernetes fake go-client, Docker & Kubernetes. Also wrote unit tests and e2e tests for the same.

Opensource Developer

📅 Sep 2021 – Present

### CNCF - Kubernetes

- I was a part of the structured logging migration Working Group where I migrated logs of kube-proxy to structured logging.
- I'm the maintainer of the **kubernetes.dev** site project where I worked on developing new features such as the events page, improving its SEO, triaging issues and PRs on a regular basis.
- Worked on some automation projects such as removal of inactive members using **devstats** and zoom cloud to YouTube automation using zapier and Golang

Backend Developer

📅 Jun 2021 – Aug 2021

### Open Bioinformatics Foundation

- During Google Summer of Code, 2021 I worked on developing a journal policy tracker using python, poetry, flask.
- Used SQLite3 for storing data with SQLAlchemy as the ORM and automated its deployment to Heroku using GitHub actions

## PROJECTS

### Kaagaz - Official Magazine of NIT Rourkela

- Implemented a highly scalable frontend for the official magazine of NIT Rourkela along with a custom markdown parser.
- Incorporated blog, progressive web app (PWA) & animation features for a seamless experience using Next.js, TypeScript, Styled Components, integrated Google Analytics, and deployed it on Vercel.

### Mini Node Exporter

- It is a type of monitoring stack and an exporter for hardware and OS metrics like avg. load, uptime, etc that's exposed by the prom-client.
- Developed it using Express.JS and prom-client for the server, Prometheus and Grafana for continuously monitoring the stack, Docker to containerize the express app, and Docker Compose to orchestrate the whole stack.

## PROGRAMMING SKILLS

### Programming Languages

Javascript, Typescript, Golang, C++, Python

### Industry Knowledge

OOPS, Data Structures, Full Stack Web Development, Cloud Computing

### Frameworks and Libraries

React, Redux, Next.js, Gatsby, Node.js, Express, Mongoose, MongoDB, Firebase, Flask, SQLite, Gofiber, Socket IO

### Tools and Technologies

Git, GitHub, Webpack, Heroku, Docker, Kubernetes, Prometheus, Grafana, Kyverno, DigitalOcean

### Languages

English, Hindi, Odia

## PORS

### YouTube Admin, Kubernetes

- I'm one of the primary Youtube admin of the official **Kubernetes** YT channel.

### GitHub Campus Expert

- A program by **GitHub Education** that strives to build diverse and inclusive spaces to learn skills and build projects together.

### Community Manager, OpenCode

- It is the open-source community of NIT Rourkela registered under the Student Activity Center(SAC), NITR.

### Tech Lead - HackNITR Hackathon

- One of the largest hackathons in Eastern India with more than 2200 hackers

## EDUCATION

B.Tech Ceramic Engg. | 2019-23

NIT Rourkela | 7.67/10

Intermediate | May 2018

De Paul School | 90%

Matriculation | May 2016

De Paul School | 91.2%

## INTERESTS

Open-Source, Technology, DevOps, Cloud, Communities, Technical Writing, Basketball, Hackathons, Web3, Trading