

# PRITISH SAMAL

B.Tech | NIT Rourkela

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## WORK EXPERIENCE

### Software Engineer 1

📅 August 2023 – Present

#### Harness.io

- Worked on developing and optimizing the **Harness Continuous Verification (CV)** feature in the CD module, **resolving critical bugs** and **integrating multiple APMs**. CV uses machine learning to analyze deployment behavior, flag anomalies, and trigger rollbacks when necessary.
- **Revamped the frontend architecture** of CV using React, Typescript, and Formik, introducing new features, streamlining data flow and rendering, and simplifying the user interface, which led to **increased customer adoption**.
- Engineered a **feature usage dashboard** for Harness, using React, TypeScript, and Golang, to track the compliance of pipeline construction and customer retention, improving product stickiness.
- Developed a **Deployment Maturity Dashboard** using Next.js and Java, scanning pipeline YAMLS for flagship feature usage and calculating a cumulative score, while highlighting critical data like projects without production deployments.
- Ranked as a **top bug smasher** for Q4 FY'25, resolving 30+ critical bugs and delivering high-impact features that enhanced the user experience for enterprise clients.

### Software Development Intern

📅 May 2022 – Feb 2023

#### BharatPe

- Worked primarily in the **Web Chapter** and created reusable components in React & TypeScript utilizing the **React Testing Library** in a test-driven development environment.
- Closely worked with the **Unity Small Finance Bank** (recently acquired by BharatPe) building a revolutionary branch banking service for the customers & employees.
- Built a **video widget** for the BharatPe merchant app using React, TS, & Rephrase AI apis which was used by over a **100,000** merchants.
- Also worked on the login flow, address feature, OTP verification, voucher flow and products flow of the **Zillion App** (formerly **Payback**) which is essentially a unique coalition loyalty program.

### Software Development Intern

📅 Sep 2021 – Nov 2021

#### Cloud Native Computing Foundation - Kyverno

- As an LFX 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
- Ideated the structure of test.yaml for generate policies taking into consideration the existing test command workflow & then worked on tweaking the test command using **Golang**, kubernetes, fake go-client, Docker & Kubernetes. Also wrote unit tests and e2e tests for the same.

### 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, & SQLite3.
- Implemented the CRUD functionalities of journals and their related policies as well as set up an authentication & authorization system.
- Used SQLite3 for storing data with SQLAlchemy as the ORM and automated its deployment to Heroku using GitHub actions

## EDUCATION

### B.Tech Ceramic Engg. | 2019-23

NIT Rourkela | 7.35/10

## PROGRAMMING SKILLS

### Programming Languages

JavaScript, TypeScript, Golang, Bash, Python

### Industry Knowledge

OOPS, Data Structures, Computer Networking, Cloud Computing, Full Stack Development

### Frameworks and Libraries

React, Redux, Next.js, Gatsby, Node.js, Express, GraphQL, Mongoose, MongoDB, Flask, MySQL, Gofiber, Socket IO, PostgreSQL

### Tools and Technologies

Git, GitHub, Figma, Linux, Docker, Kubernetes, Grafana, Prometheus, Kyverno, Kafka, Service Mesh, API Gateway, DigitalOcean, GCP, Jenkins, Circle CI

## PROJECTS

**Pipeline Maturity Scanner** - Built this internal tool for Harness using Next.js & Express.js which scans pipelines for compliance with rules like continuous verification and security scans, displaying results on a dashboard with detailed scorecards.

**Bundlify** - It is a simplistic JavaScript bundler that given a project with multiple files and external dependencies, will read JavaScript files, resolve and bundle the code into a single output file.

**NITR Utsav NITR** - Created an interactive website for NITR's cultural fest, achieving nearly 1 million hits. Used React and TypeScript for the frontend, and Express, TypeScript, GraphQL, and Prisma for the backend.

## PORS

- Mentor, Google Summer of Code'22
- Opensource Contributor, Kubernetes
- GitHub Campus Expert, NIT Rourkela
- Tech Lead - HackNITR Hackathon
- Secretary, Film & Music Society, NITR