

# Pradyot Ranjan

Software Engineer



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Open-source contributor and DevOps engineer specializing in CI/CD automation, Kubernetes runtime security, and Python testing. Mentee in GSoC, LFX, and KDE programs with measurable upstream impact.

## Work Experience

### Software Engineer

Jul 2025 - Present

PiHex Labs

Automating CI/CD and testing pipelines for LLM products; contributing to Kubernetes security tooling.

### Open-Source Contributor (Mentee)

May 2024 - Sep 2024

[Google Summer of Code – NumFOCUS / PyBaMM](#)

Migrated test suite to pytest and added property-based tests; reduced runtime 2.5x.

- PR #3857, #4125, #4502, #4703.

### Mentee

Jan 2024 - Apr 2024

[Season of KDE – Selenium AT-SPI](#)

Improved GUI automation tooling; authored tutorials and docs.

### Mentee (Runtime Security)

Sep 2024 - Nov 2024

[Linux Foundation LFX – CNCF KubeArmor](#)

Implemented fuzz testing and integrated with OSS-Fuzz.

- Fuzzers for ContainerPolicy, HostPolicy, Config; OSS-Fuzz integration.

## Education

### B.Tech (Undergrad) in Computer Science & Engineering

Aug 2021 - Present

[Jaypee Institute of Information Technology, Noida](#)

## Skills

### DevOps & CI/CD (Intermediate)

Docker, Kubernetes, GitHub Actions, Jenkins, ArgoCD, AWS EC2, GitOps

### Testing & QA (Intermediate)

Pytest, Hypothesis, Fuzzing, OSS-Fuzz

### Programming (Intermediate)

Python, NumPy, Go (basic)

## Projects

### DevOps CI/CD Pipeline Demo

Automated pipeline using Jenkins → ArgoCD → Kubernetes on AWS with GitHub webhooks.

- GitOps workflow
- Reusable IaC

**Technologies:** Jenkins, ArgoCD, AWS, Kubernetes

**Roles:** Developer

## Languages

**English** (Fluent)