

## EDUCATION

### IIT Roorkee

#### B.Tech in Electronics and Communication Engineering

2016 - 2020

## SKILLS

### Technologies

- Go • Python • Rust • C/C++ • Javascript
- PHP • Kubernetes • Terraform

## ACTIVITIES

### Open Source

- Cilium - Core Contributor
- CloudCV - Contributor
- Google Summer of Code - 2018
- Google Code In mentor - 2018
- Committer - Tor, OWASP, Firecracker

### Competitions

- CSAW India Finals - Runner Up
- BSides Delhi CTF - 2nd Runner up
- BrainWaves CTF - 2nd runner up

### Hackathons

- Microsoft Code.fun.do
- Inter IIT Hackathon
- Hack InOut

## PROJECTS

### Xene

- Xene is a distributed workflow runner.
- Inspired by open source projects including Terraform and Kubernetes.

### Beast

- Jeopardy-style CTF challenge deployment and management tool.
- Includes an in house feature-rich UI to host competitions.

### Muzi

- Worked on rewriting complete UI using react-redux framework.
- Developed libraries and scrapers to interact with online services like spotify, saavn etc.

### Pinger

- An uptime and status monitoring application with pluggable probes and storage backends.

## EXPERIENCE

### Microsoft | Software Engineer

March 2021 - Present | Vancouver, Canada

- Added IPv6 support to Azure's new Virtual Networking agent.
- Worked with JIT team internally to deliver the feature to allow first party Azure customers to get JITAccess to VMs.
- Built a new host agent from scratch that can be used to configure host firewalling using a more performant VFP stack instead of Windows Firewall.

### Isovalent | Software Engineering Intern

August 2020 - March 2021

- Built a Kubernetes controller to provision terraform resources from git sources.
- Built an operator to provision test clusters for Cilium on various cloud providers using in house terraform modules with controller.
- Worked on open-source Cilium to improve operator and added support for Dual-Stack Kubernetes environment.

### Dgraph Labs | Intern

December 2019 - January 2020 | Bangalore, India

- Lead the development of Kubernetes operator for dgraph and improved the existing kubernetes deployment manifest and helm chart.
- Created terraform module for Dgraph one click deployment on various public clouds and built marketplace product for AWS and GCP.

### Cilium | Core Contributor

July 2019 - Present | Open-Source

- Spearheaded the development of ClusterWide network policies for Cilium.
- Worked with the team to triage and fix various control and data plane issues.

### Microsoft | Software Developer Intern

May 2019 - July 2019 | Hyderabad, India

- Worked on creating a pipeline for deidentification of DICOM images for Azure Health.
- Created a Library for DICOM image deidentification integrating with Microsoft Vision API and classification Engine.

### HackerEarth | Infrastructure Intern

December 2018 | Bangalore, India

- Spearheaded the development of a PoC for migrating the entire infrastructure to Kubernetes, integrating developer workflow pipeline with tools like Istio, Spinnaker, Jenkins etc. with multi cloud support.
- Worked on migrating existing services to terraform provisioned infrastructure.

### Google Summer of Code | Software Developer

Summer - 2018 | Remote(Link)

- Engineered a service daemon utility to manage the demo creation pipeline and deploy applications in containerized environment on the servers.
- Worked on implementing CI/CD pipeline for automated testing and deployment.

### University | IIT Roorkee

July 2016 - June 2020

- SDS Labs: Secretary spearheading the development of various University and Open-Source projects.
- InfoSecIIITR: Participated in various online and onsite CTF competitions as a member of InfoSecIIITR.