

## EDUCATION

### IIT Roorkee

#### B.Tech. in Civil Engineering

Cumulative GPA: 8.087/10  
Senior Year  
Expected May 2021

## SKILLS

### Programming Languages

Go, JavaScript/TypeScript, Python, C/C++, Rust

### Technologies

Git, NodeJS, Docker, Django, Vue, React

## ACTIVITIES

### Inter IIT Tech Meet

#### Gold Medalist (2019)

- Created the winning application that can detect potholes live while recording.

### UST Global d3code

#### Winner (2019)

- Wrote a cross-platform desktop application to transfer CSV dumps into relational databases.
- Predicted data-types from raw data and detected anomalies.

## MISCELLANEOUS

### Open Source

#### Caddy

Contributed to the caddy web server project. Added the `fmt` command in the Caddy CLI.

#### Cockroach DB

Fixed minor issues and refactored code to avoid trivial errors.

### Inter IIT Tech Meet

#### Head of Technology

(2019)

Spearheaded the development of the official website of the 8th Inter IIT Tech Meet.

### Convocation App

#### IIT Roorkee (2018)

Developed and maintained the API for the convocation app for the batch of 2018.

## EXPERIENCE

### Goldman Sachs

#### Summer Internship (May to June 2020)

- Worked on a time-series database for adding a processor to build consolidated order books.
- Built the processor that generates the consolidated order book for multiple symbols and levels.
- Integrated the processor with various APIs in different languages (C++, Java and Python).

### Zulip Open Source Project

#### GSoC Mentor (since April 2020)

- Mentored university students to contribute to Zulip as a part of Google Summer of Code.
- Contributed to solving various issues related to UI/UX of the web app.

### Google Summer of Code (Zulip)

#### Student Developer (May to August 2019)

- Added various features such as creating transcripts of conversations, adding notifications for various message events.
- Worked on the Zulip events system which is responsible for updating the state across the backend and the frontend of the web application.
- Re-engineered components like message-box, drafts and message edit-history.

## PROJECTS

### Pinger

#### SDSLabs (September 2019 to present)

- Built an uptime and status monitoring app with pluggable probes, storage backends and alerts.
- Integrated various check probes including TCP, UDP, HTTP, DNS, ICMP and Websocket with storage backends TimescaleDB and Prometheus.
- Developed a central server to assign checks and keep a health check on worker agents.

### Gasper

#### SDSLabs (August 2018 to August 2019)

- Built a platform that can deploy and scale web applications and databases.
- Developed the core pipeline for packaging applications into containers and deploying them.
- Spearheaded the development of a web based UI in Vue JS.

### Caddygit

#### Personal Project (April 2020 to present)

- Created the Caddy webserver module (plugin) to setup and update local project with git.
- Implemented polling and webhook services to update the repository.

### Leaf

#### Personal Project (February to May 2020)

- Developed a CLI that watches for changes in a directory and runs user defined commands.
- The package also exposes an API to aid in building customised hot-reloader for different projects.

### Watchdog

#### SDSLabs (January 2020 to present)

- Created a server management tool to keep track of admin rights attempts made via SSH.
- Integrated an easy way to grant/revoke access through a centralised repository on Github.
- Added the notifier interface and integrated Slack and Discord notifiers to report access attempts.

## LEADERSHIP

### Secretary

#### SDSLabs (June 2020 to present)

- Regularly conducted hackathons, workshops and competitions for university students.
- Presented hands-on workshops on various topics including but not limited to server management, operating Linux and cloud native technologies.
- Spearheaded development of various projects, contributing to design, discussion and testing.

### Web Developer

#### Watch Out! (June 2020 to present)

- Responsible for building and maintaining the web infrastructure of the student media body of IITR.
- Actively contribute to discussions regarding on going activities and ideas for new articles.