

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.