

EDUCATION

IIT Roorkee

B.Tech. in Civil Engineering

Cumulative GPA: 8.087 / 10

Senior Year

Expected May 2021

SKILLS

Languages

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

Technologies

Git, NodeJS, Docker, Django, React, Vue, Vim

ACTIVITIES

Inter IIT Tech Meet

Gold Medalist (2019)

- Won the coding hackathon by creating an application to detect potholes live while recording.

UST Global d3code

Winner (2019)

- Wrote a cross-platform application to transfer CSV dumps into relational databases.
- The app detected any errors in datatypes and predicted types from raw data.

MISCELLANEOUS

Caddy

Open Source Contributor

- Contributed in adding the "fmt" command.
- Developed the Git module for v2 of the server to automate deployments of applications.

Cerebro

SDSLabs

- Maintained Cerebro — a platform for predictive modelling and analytics competitions.

Inter IIT Tech Meet

Head of Technology (2018)

- 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.

REFERENCES

Tim Abbott

Lead Developer

Zulip Open Source Project

tabbott@zulipchat.com

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 (with 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 events system used to update data across the backend and the frontend of the web application.
- Re-engineered components like message-box, drafts and message edit-history.

PROJECTS

Pinger

SDSLabs (since September 2019)

- Built an uptime and status monitoring application with pluggable probes and storage backends.
- Developed the agents responsible for executing checks and the central API server to assign checks and keep a health-check on workers.
- Integrated check probes including TCP, UDP, DNS, ICMP, HTTP and WebSocket with storage backends TimescaleDB and Prometheus.

Gaspar

SDSLabs (August 2018 to August 2019)

- Built a PaaS that can deploy and scale web applications based on various languages and database engines.
- Developed the core pipeline required for packaging applications into Docker containers and deploying them.
- Wrote a web based UI for accessing the platform in Vue JS.

Kiwi

SDSLabs (since June 2020)

- Created a thread safe in memory key value store that can be extended for various data structures.
- Integrated data structures such as vector, set, scored set and map.
- Built a system for creating persistent backups for the store and mechanism for reviving server.

Watchdog

SDSLabs (since January 2020)

- A server management tool which keeps track of administrative rights attempts made via SSH.
- Provides 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.

Leaf

Personal Project (February to May 2020)

- Wrote a command-line tool that watches for changes in the working directory and runs user defined commands.
- The package exposes an API to aid in building customised hot-reloader for different projects.

LEADERSHIP

Secretary

SDSLabs (since June 2020)

- 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.

WatchOut

Web Developer (since August 2018)

- 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.