

# Sachin Kumar Singh

<https://sachinkumarsingh092.github.io>

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## EXPERIENCE

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- **Google Summer of Code'20**

*Student Developer at GNU-Astro*

The GNU project

*May 2020 – August 2020 (ongoing)*

- Made a library and a CLI interface to inter-convert different distortion types present in different astronomical datasets providing uniformity when different software are used in an analysis pipeline.
- Working on a library to match astronomical images within large catalogue by using reverse index method. The library is highly modular than existing software and is written entirely in C making it highly scalable and efficient.

- **India Linux User Group**

*Open Source contributor*

Delhi NCR

- Made contributions to their messaging bot providing more functionality and improving code quality.

## PROJECTS

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- *Book Reviewer*

- Book reviewing web application allowing users to register themselves and rate and review books from a large catalogue of books.
- Built with Flask, jinja2 templating, bootstrap CSS, PostgreSQL, goodreads developer-API and hosted on Heroku.

- *Otaku-chat*

- A realtime chatting web application providing multiple rooms to chat inspired by slack.
- Features include creating and joining multiple channels, saved sessions even after closing the browser, deleting sent messages and more.
- Built with Flask, Javascript, FlaskSocketIO, jinja2 templating, bootstrap5 CSS, PostgreSQL and hosted on Heroku.

- *Bitmap Filters*

- A fast and efficient bitmap filter to convert uncompressed bitmap images, written entirely in C.
- Current filters include grayscale, blurring, reflecting the image and detecting its edges.

## ACHIEVEMENTS

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- **Paytm Build for India Hackathon**

Won 1<sup>st</sup> runner-up prize for building a website to be used by an educational organisation, where the same website can be used by students, teacher and administrator to organise their individual programs.

- **NIT-H CTF**

Won 2<sup>nd</sup> runner-up prize in Capture The Flag(CTF) conducted by cybersecurity club of NIT-Hameerpur.

## PROGRAMMING SKILLS

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- **Languages:** C/C++, Python, Javascript, SQL, Shell scripting, Java, HTML, CSS

- **Technologies:** GNU/Linux, Git, Heroku

- **Frameworks:** Flask

## EDUCATION

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- **University School of Information, Communication and Technology**

*Bachelor of Technology(Information Technology); CGPA: 7.6*

GGSIU, New Delhi

*Aug. 2018 – July. 2022(Expected)*

- **Pratap Public School**

*Higher Secondary; 93% in high school.*

Karnal, Haryana