

Sachin Kumar Singh

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EXPERIENCE

• Google Summer of Code'20

Student Developer at GNU-Astro

<https://summerofcode.withgoogle.com/projects/#4950581673721856>

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

<https://github.com/ILUGD>

Delhi NCR

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

PROJECTS

• Book Reviewer (<https://github.com/sachinkumarsingh092/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 (<https://github.com/sachinkumarsingh092/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 (<https://github.com/sachinkumarsingh092/bitmap-filter>)

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

ACHIEVEMENTS

• Paytm Build for India Hackathon

Won 1st runner-up prize for building a website to be used by an educational organisation, where the same website can be used by students, teachers and administrators to organise their individual programs.

• NIT-H CTF

Won 2nd runner-up prize in Capture The Flag(CTF) conducted by cybersecurity club of NIT-Hamirpur.

PROGRAMMING SKILLS

- **Languages:** C/C++, Python, Javascript, SQL, Shell scripting, Java, HTML, CSS
- **Technologies:** GNU/Linux, Git, Heroku
- **Frameworks:** Flask

EDUCATION

• 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