Sachin Kumar Singh

https://sachinkumarsingh092.github.io
GitHub : https://github.com/sachinkumarsingh092
LinkedIn : https://www.linkedin.com/in/sachin-kumar-singh-244448188

Email : sachinkumarsingh092@gmail.com
Mobile : +91-8851632324

EXPERIENCE

- **Google Summer of Code'20**   The GNU project
  Student Developer at GNU-Astro   *May 2020 – August 2020 (ongoing)*
  https://summerofcode.withgoogle.com/projects/#4950581673721856
  - 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 and align astronomical images within large catalogue. The library is highly modular than existing software and is written entirely in C making it highly scalable and efficient.

- **India Linux User Group**   Delhi NCR
  Open Source contributor
  https://github.com/ILUGD
  - 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, Bootstrap 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**   GGSIPU, New Delhi
  Bachelor of Technology(Information Technology); CGPA: 7.6   *Aug. 2018 – July. 2022(Expected)*

- **Pratap Public School**   Karnal, Haryana
  Higher Secondary; 93% in high school.