

Sachin Kumar Singh

<https://sachinkumarsingh092.github.io>

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EDUCATION

- Guru Gobind Singh Indraprastha University**

Bachelor of Technology (Information Technology), CGPA: 8.4

New Delhi, Delhi

Aug. 2018 – June. 2022

EXPERIENCE

- HackerRank**

Software Engineering Intern

<https://www.hackerrank.com/>

Bengaluru, Karnataka

June 2021 - Present

- HackerRank is a technology hiring platform that is the standard for assessing developer skills for over 2,000+ companies around the world.
- Working with the community and the DevOps team on infrastructure and backend, improving internal tooling and developer experience.

- Linux Foundation (LFX) Mentorship**

Intern at CNCF (Cloud Native Computing Foundation)

<https://mentorship.lfx.linuxfoundation.org/mentee/8375a914-cef9-4031-a718-d58d3fac013b>

SPIFFE/SPIRE

Feb 2021 - May 2021

- SPIFFE, the Secure Production Identity Framework For Everyone, provides a secure identity, in the form of a specially crafted X.509 certificate, to every workload in a modern production environment.
- Worked on SPIFFE/SPIRE (<https://spiffe.io/>) project to design and implement a new health check subsystem in SPIRE.
- Implemented readiness and liveness checks for each subsystem to be aggregated and used for global health check of SPIRE.

- Google Summer of Code'20**

Student Developer at GNU-Astro

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

The GNU project

May 2020 – August 2020

- Implemented 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.
- Implemented a space efficient index-based k-d tree for easy preprocessing of large astronomical datasets before matching.
- Implemented a multi-threaded matching algorithm to match objects (stars and galaxies) in a query dataset to a reference dataset.

PROJECTS

- URL Short** (<https://github.com/sachinkumarsingh092/urlshort>)

- A URL shortening tool that uses YAML files from users and makes custom paths from them.
- Can be used as a local binary or deployed on the cloud using docker and Kubernetes.
- Built using Golang, Docker, Kubernetes, Make, Google Kubernetes Engine (GKE).

- Otaku-chat** (<https://github.com/sachinkumarsingh092/Otaku-chat>)

- A realtime chatting web application with multiple chat room functionality.
- Features include creating and joining multiple channels, saved sessions after closing the browser, and deleting sent messages.
- Built using Flask, Javascript, FlaskSocketIO, jinja templating, Bootstrap CSS, PostgreSQL, and hosted on Heroku.

- Book Reviewer** (<https://github.com/sachinkumarsingh092/book-reviewer>)

- Book reviewer is a web application allowing users to register themselves and rate and review books from a large catalog of books.
- Built using Flask, jinja templating, Bootstrap CSS, PostgreSQL, goodreads developer-API and hosted on Heroku.

ACHIEVEMENTS

- Paytm Build for India Hackathon**

Won the 1st runner-up prize out of a total of 40 teams participating.

PROGRAMMING SKILLS

- **Languages:** C/C++, Python, Javascript, SQL, Shell scripting, Java, HTML, CSS, Golang, L^AT_EX, Make
- **Tools/Framework:** GNU/Linux, Git, Heroku, Docker, Kubernetes, Google Cloud Platform (GCP), Flask, Travis CI, Jenkins, Terraform, AWS