

# Sachin Kumar Singh

<https://sachinkumarsingh092.github.io>

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## EDUCATION

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- **Guru Gobind Singh Indraprastha University** New Delhi, Delhi  
*Bachelor of Technology (Information Technology), CGPA: 8.07 (upto 5<sup>th</sup> Semester)* Aug. 2018 – June. 2022 (Expected)

## EXPERIENCE

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- **HackerRank** Bengaluru, Karnataka  
*Software Engineering Intern* June 2021 - Present  
<https://www.hackerrank.com/>
  - 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** SPIFFE/SPIRE  
*Intern at CNCF (Cloud Native Computing Foundation)* Feb 2021 - May 2021  
<https://mentorship.lfx.linuxfoundation.org/mentee/8375a914-cef9-4031-a718-d58d3fac013b>
  - 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** The GNU project  
*Student Developer at GNU-Astro* May 2020 – August 2020  
<https://summerofcode.withgoogle.com/projects/#4950581673721856>
  - 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

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- **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

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- **Paytm Build for India Hackathon**  
Won the 1<sup>st</sup> runner-up prize out of a total of 40 teams participating.

## PROGRAMMING SKILLS

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- **Languages:** C/C++, Python, Javascript, SQL, Shell scripting, Java, HTML, CSS, Golang, L<sup>A</sup>T<sub>E</sub>X, Make
- **Tools/Framework:** GNU/Linux, Git, Heroku, Docker, Kubernetes, Google Cloud Platform (GCP), Flask, Travis CI, Jenkins, Terraform, AWS