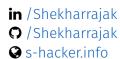
# **Shekhar Prasad Rajak**







**Modak Analytics**Software Developer

Dec 2018 - Jul 2019 Hyderabad, India

- > Working on a system for optimal and fast genomic data analysis and data processing.
- > Designed and developed Modak Genomics website.
- > Explored CUDA libraries to interact with GPU hardware and various Python library for parallel programming and better performance like: Dask, Numba, RapidsAI.

## **Google Summer of Code**

2018 - 2019

Mentor / Repository Maintainer: SymPy, SciRuby, CloudCV

- > Continue contributing to open source projects and helping new contributors of SymPy and SciRuby. Also mentored students for GSoC 2018 and GSoC 2019.
- > Contributed and mentored Cloud-CV/EvalAI-ngx project in GSoC 2019, which is New Frontend for Cloud-CV/EvalAI in Latest version of Angular.

**CGI Group**Software Engineer

2017 – 2018
Bengaluru, India

- > Designed, built deployed web application Promotion Automation project.
  - \* Frontend Angular, Backend NodeJS, Database Sql
  - \* Authentication and authorization using CGI mail ID.
  - \* Generate BRF document (PDF) for the particular promotion ID.
  - \* Check the difference between latest and previous version promotion.
  - \* Searching the latest version of the promotion is easy with this application.
  - \* One click script generation/testcase/UAT package generation and can seed the data.
- > Led the team as Scrum master, working on Continuous Deployment Dashboard project.
  - \* which is a continuous delivery platform where different teams can view the different stages a product.
  - \* Clients/developer have a single view to track progress of their products.
  - \* Extendable and modular application. New CI/CD tool can be plugged in with minimum changes.
  - \* Microservice based architecture with health checkup of each instance/service.
  - \* Deployed using docker container in AWS.
  - \* Frontend Angular, Backend Spring boot, Database Sql, Mongo, Redis, Neo4J, tools: Jenkins, SVN, GIT, Docker, Kafka, Travis
- > Worked with ML team for creating recommendation system(offer/subscription recommendation).

# Google Summer of Code - Ruby Science Foundation

Summer 2017

Student Developer

- > Enhanced features and fixed some open issues of DaRu repository.
- > Designed and built a Ruby library called daru-view Data Visualization in Ruby from scratch using powerful javascript library GoogleCharts, HighCharts, DataTables, D3.js
- > daru-view can work in any Ruby web application framework, IRuby notebook and simple ruby program as well.
- > GSoC 2017 report link , Project description on Google Summer of Code site

Student Developer

- > Worked on Solvers module of SymPy Python library for symbolic mathematics.
- > Enhanced the features of Solveset module, which ensure the all the solution of equation and system of equations.
- > Worked on around 55 PRs in SymPy GitHub repository. Checkout the SymPy development team.
- > GSoC 2016 report is available in site, Project details can be seen at Google Summer of Code site

# **△** Projects

## **Open Source Projects**

- > All the Github repository and commits can be seen at github.com/Shekharrajak/
- > Blog post designed and developed using Jekyll shekharrajak.github.io and Personal site
- > Github Repository and Profile Manager, which uses Github API to fetch the data. This is developed using Angular 4.
- > Projects currently I am working on can be seen at github.com/shekharrajak/projects

## **Open Source Contributions**

- > Maintainer of SciRuby Repositories DaRu and daru-view. Admin of SciRuby for GSoC 2019.
  - \* Responsible for Google Summer of Code Ruby Science Foundation 2019 application and Students review selection.
  - \* Reviewing PRs and helping/answering new contributors about DaRu gem.
  - \* New projects and ideas are being added for daru-view gem .
- > Maintainer of CloudCV EvalAI-ngx repository.
  - \* Project ideas discussion and PR reviews for Cloud-CV/EvalAI-ngx
  - \* Part of the GSoC 2019 mentor team.
- > Active in SymPy and SymEngine Repository. Helping new contributors and mentored students in Google Summer of Code program.
- > Worked on 4 PRs in Bundler Github repository. Checkout the Bundler Development team.
- > Contributed to NumPy (which provides powerful N-dimensional array object) Github Repository.
  - \* Redesigning and restructuring the contents of NumPy docs.
  - \* Part of the SciPy and NumPy team who are involved in Redesigning the website using Static Site Generator (Hugo).
  - \* Customizing the scipy-sphinx-theme for better UI and UX experience.

# **⇔** Skills

Web Development Angular, NodeJS, Spring Boot, Jekyll, Hugo

Database MySql, MongoDB

**DevOps** Docker, Git, SVN, Travis, Jenkins CI/CD, , Kafka message bus

**Programming Languages** C, Cpp, Java, Python, Ruby, Javascript

Data Science, Deep Learning, Machine learning Daru, daru-view, Pandas, NumPy, Scikit-learn, PyTorch, Keras

# **Education**

# **Certificates**

**Full Stack Developer** StackRoute Certified training program on Application design, Design Pattern, Angular, Spring boot, Docker, NoSql and Sql databases.

Google Summer of Code Student Developer - 2016, 2017, Mentor - Since 2018, Org. Admin - 2019

## **P** Achievements

### **Board topper - Class 12th**

- > Rank 1 in Chhattisgarh Board of Secondary Education (CGBSE) 2012.
- > Received GOLD Medal for Mathematics stream topper and overall topper.

### Among top 15 student - Class 10th

> Chhattisgarh Board of Secondary Education (CGBSE) 2010.

### **Scholarships**

- > Scholarship by Education minister Chhattisgarh to top 10 students.
- > Scholarship by Chhattisgarh Government during Under Graduate program(2013-17)

## **Extra-Curricular**

- > Member of Web and Software Development Cell (WSDC) NIT, Warangal 2015-16.
- > Rated Chess player in chess.com.
- > ISKCON (International Society for Krishna Consciousness) attended 3 sessions in Pune, Chennai, Mangalore.
- > Winner of Vedic Mathematics competition(district level) during school days.
- > Training at NIT Surathkal on Web Development 2014 Summer.

# Conferences

## PyCon India 2017 Organized Workshop on SymPy and SymEngine.

- > This workshop covered basic to advance features of SymPy.All the tutorial examples are present in Shekharrajak/PyCon-SymPy-SymEngine Github repository.
- > Talk about SymEngine Why SymEngine is created and it's binding with other languages.
- > SymPy Slide is present here.

#### **RubyConf India 2018** Talk on SciRuby/daru-view library

- > Presentation on daru-view how it is useful in Ruby Web application and IRuby notebook as visualization tool.
- > Slide is present on slides.com/shekharrajak