

SHEKHAR PRASAD RAJAK

Passionate Software Developer — Open Source Contributor — Machine Learning Engineer

📞 +91-8142478937 ✉ shekharrajak@live.com 🔗 [linkedin.com/in/shekharrajak](https://www.linkedin.com/in/shekharrajak) 🐙 github.com/shekharrajak

TECHNICAL SKILLS

Languages: Python, Java, C++

DevOps: Git, Docker, Kubernetes, Jenkins, Splunk, AWS, Ansible

Technologies/Frameworks: PyTorch, scikit-learn, Hugging face Angular, Node.js

PROFESSIONAL EXPERIENCE

Apple

Since Sept 2019

Software Engineer

Hyderabad, India

- Part of IdMS team, team is responsible for authentication, authorization of corporate customer users and manage data.
- Deliver features that is used by Apple Customers all over the world. Aggregate the transaction data, visualize and understand the anomalies by processing it for **Splunk ML** and other customized Machine learning Models.
- Worked closely with **Apple Cloud Infrastructure** team to containerize multiple applications and deploying it in **AWS Kubernetes**.

Modak

Dec 2018 – Sept 2019

Machine Learning Engineer

Hyderabad, India

- Worked on optimizing the system for faster **Genomic data analysis and data processing** using GPU and NVIDIA CUDA libraries using **Apache Spark, Apache Ignite**.
- Build the APIs for the web application to run the job in **distributed system**, map the genomic sequence and display the match.
- Using existing Bioinformatics Open Source Projects, which uses **PyTorch, scikit-learn**, to detect the Humane behaviour - Physically and Mentally.

CGI, Inc

July 2017 – Dec 2018

Software Engineer

Bangalore, India

- Designed & built **microservice** architecture based web application called Promotion Automation system using **Angular, Node.js, Spring Boot, storing data in NoSQL databases/cache**.
- Worked on **Continuous Deployment Dashboard Project** using **Spring boot, Angular 4** from scratch to deploy in **Kubernetes**. The project simplified the CI/CD task and provide **single platform to internal teams to use different CI/CD tool**.
- Build a chat bot for Support team using **BERT, which can answer the general queries of Analyst**. The BERT model was fine tuned for reading the report and understanding the context and find out relevant text with **PyTorch and Hugging face**.

OPEN SOURCE CONTRIBUTIONS

Kubernetes Org Member & Contributor | Go, Unix Script, Python

Since 2020

- Involved with multiple **Kubernetes SIG Projects** like enhancements, community, contributor-site, website and core modules.
- Work closely with Apple Kubernetes, CNCF team and join internal projects discussions.

NumPy/SciPy, Bundler - Org Member & Open Source Contributor | Python, Go, Scientific Computing

Since 2019

- Worked on Documentation - NumPy/SciPy and build, restructure NumPy docs as discussed in **NEP: numpy.org website redesign**
- 4 Patches(PRs) in **Bundler** github repository. Worked on bundle inject command and plugin uninstallation
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Google Summer of Code, Student Developer - SciRuby, Ruby Science Foundation | Ruby, C++

Summer 2017

- Designed and built a Ruby library called **daru-view Data Visualization in Ruby** using powerful javascript library - GoogleCharts, HighCharts, DataTables, D3.js from scratch. **GSoC 2017 - report**
- Worked on DaRu (Data Analysis in Ruby) to improve the APIs like groupby, join, DataFrame and Vector for large scale dataset.

Google Summer of Code, Student Developer - SymPy, SymEngine | Python, C++

Summer 2016

- Worked on Solvers module of **SymPy Python library for symbolic mathematics**. Worked on SymPy solvers module- mostly solveset with 55+ PRs, which ensure the all the solutions of equations and system of equations. **GSoC 2016 - report**

EDUCATION

National Institute of Technology
B.Tech Computer Science and Engineering

June 2013 - May 2017
Warangal, India

LEADERSHIP / EXTRACURRICULAR

Google Summer of Code - Org Admin, Mentor | *Ruby, Angular, Docker, Python* **Since 2018**

- GSoC 2019 Admin for Ruby Science foundation and maintaining SciRuby repository - [daru](#) *Data Analysis in Ruby*, [daru-view](#) *Data Visualization in Ruby* gem.
- GSoC 2018, 2019 Mentor for multiple organizations and projects: SymPy (Solver module), SciRuby (mlpack, daru, daru-view), CloudCV (main web application that organize the student level State of the Art ML competitions)

Board topper - Class 12th/Higher Secondary School | *2 Gold Medalist* **2012**

- Chhattisgarh Board of Secondary Education (CGBSE) 2012 topper. Received **GOLD** Medal for Mathematics stream topper and overall topper in class 12th.

Scholarships | *Throughout the School journey* **Summer 2017**

- Scholarship by Education minister Chhattisgarh to top 10 students and by Chhattisgarh Government during UnderGraduate program(2013-17)
- In **top 15** students list - Class 10th Board exam among all the students

Member of WSDC, NIT Warangal | *Django, PHP,SQL, NoSQL* **2014-15**

- Member of Web and Software Development Cell (WSDC) NIT Warangal 2015-16. This club is responsible to handle **college websites, student registrations, College fest registrations, online attendance** through Mobile and web application and managing data of Professors / college students.

Hobbies- Chess, Spirituality, Vedic Mathematics |

- Rated Chess player in chess.com
- Winner of Vedic Mathematics competition(district level) during school days.
- **ISKCON** (international Society for Krishna Consciousness) attended 3 sessions in Pune, Chennai, Mangalore.

CONFERENCES/SPEAKER

PyCon India | *Delhi, India* **2017**

- [Workshop on SymPy and SymEngine](#)

RubyConf India | *Bangalore, India* **2018**

- [Lightening talk on SciRuby/daru-view library](#)

ApacheCon North America | *Virtual* **2020**

- [Running ML algorithms with ML tools available in Apache Ecosystem](#)
- [Cluster Management in Apache Ecosystem](#) [Kubernetes](#)