

Chirag Soni

✉ chirag.soni9352@gmail.com

☎ (+91) 820-905-3990

🌐 risenagain.github.io

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, PATNA

B.TECH. IN COMPUTER SCIENCE
AND ENGINEERING
CPI : 8.64/10.0
July 2014- May 2018

SKILLS

C, Java, Python, Javascript, SQL, Shell
Script, Haskell, React, Angular

AWS (SQS, SNS, EC2, ECS, ECR,
MediaTailor, CloudFront, S3, VPC)

GCP (DataFlow, BigQuery, Video
Intelligence, Kubernetes, VMs, App Engine,
Pub/Sub, Storage)

Linux, Git, Visual Studio, IntelliJ

Machine Learning, Deep Learning, Natural
Language Processing, Genetic Algorithms

ACHIEVEMENTS

Won **1st** prize among 20 working demos
and 120 ideas in Samsung for contextual
advertisement demo.

Ranked among the **top 20** (in India) in
Google HashCode competition.

Secured **All India Rank 2819** among
150,000 candidates in IIT-JEE Advanced
and **All India Rank 8413** among **1,400,000**
candidates in IIT-JEE Mains

Ranked **2nd** in District level in STSE

PUBLICATION

Automatic Evolution of Bi-clusters
from Microarray Data using
Self-Organized Multi-objective
Evolutionary Algorithm

Applied Intelligence Journal 2019

<http://link.springer.com/article/10.1007/s10489-019-01554-w>

WORK EXPERIENCE

D. E. SHAW INDIA PVT. LTD., HYDERABAD

SENIOR MEMBER TECHNICAL, FRONT OFFICE

Jul 2020 - Present

MEMBER TECHNICAL, FRONT OFFICE

Jul 2019 - Jul 2020

- Significant contributor to the front-end of a progress reporting system in React starting from v0 product which enables users to generate reports of their work and tracks time spent across various activities. Took a lead in making key design decisions for the front end architecture and was also involved in designing DB schema. **React** **Redux** **Thunk** **Normalizr** **Express** **Nodejs** **redux-select** **immer**
- Worked on a proprietary issue-tracking cum workflow management product. Developed diff functionality for HTML content. Fixed security vulnerabilities in the system like cross site scripting, SQL injection, etc. Hands-on experience with SQL Server. Debugged miscellaneous bugs in the system reported by users. **Java** **SQL Server** **T-SQL** **Javascript** **Closure Templates**

SAMSUNG RESEARCH INSTITUTE, DELHI

SOFTWARE ENGINEER, SERVER TEAM

Jul 2018 - Jul 2019

- Worked on a **highly scalable** distributed log analysis pipeline (ETL) processing billions of logs (~6TB) per day from multiple CDN vendors for OLAP purposes. **Apache Beam** **Big Query** **Cloud DataFlow** **Java** **ETL** **OLAP**
- Developed front-end for admin portal of CDN service. **Angular**
- Worked on a unified portal for automatic deployment of microservices of Samsung's Smart TV services. **Microservice Architecture** **Docker** **AWS(ECS)** **Shell Script** **Java** **Spring Boot** **Jenkins**
- Built a system from scratch to serve contextual ads in videos, i.e. ads based on what's going on in the content video. Won best idea implementation award among 20 working demos. **Angular** **Computer Vision** **Deep Learning** **Media Tailor** **VAST** **VMAP** **HLS** **Python** **Flask**

INTERNSHIPS

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TAIWAN

SUMMER RESEARCH INTERN, ICL LAB

May 2017 - July 2017

- Researched on **Secure Multi Party Computation**. **Cryptography**
- Developed programs on a practical SMPC framework OblivM.
- Analyzed complexities of different Oblivious RAM models.
- Working demo to showcase feasible use of OblivM for business application.

STOCHASTIC SOLUTIONS PVT. LTD, GURGAON

SUMMER INTERN, WEB DEVELOPMENT

May 2016 - July 2016

- Developed a crowdsourcing educational website ScholarGraph.com from scratch featuring college comparison and question-answer platform. **PHP** **MySQL** **Google Polymer** **jQuery** **CodeIgniter** **Google Cloud Platform**
- Exceeded expectations and was awarded a **spot bonus**.

PROJECTS risenagain.github.io/#projects

SMS Classification for Smart Assistance **Python** **NLP** **SVM**

Bone Age Detection from X-Ray **Python** **NLP** **Keras** **TensorFlow** **CNN**

Hybrid Machine Translation **Python** **NLP** **Dependency Parser**

Hostel Affairs : A voting based issue tracking platform **Polymer** **PHP** **MySQL**