

# Chirag Soni

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🌐 [risenagain.github.io](https://risenagain.github.io)

## EDUCATION

**UNIVERSITY OF WASHINGTON**  
M.S. IN COMPUTATIONAL LINGUISTICS  
Sep 2021 - Aug 2022

**INDIAN INSTITUTE OF TECHNOLOGY, PATNA**  
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING  
CPI : 8.64/10.0  
Jul 2014 - May 2018

## SKILLS

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

Deep Learning, Natural Language Processing, Genetic Algorithms

Linux, Git, Visual Studio, IntelliJ, AWS, GCP services

## 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

## 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` `reduxselect` `immer`
- Worked on a proprietary issue-tracking cum workflow management product DESFlow. Developed diff functionality for HTML content. Fixed security vulnerabilities in the system like XSS, SQL injection, etc. Debugged miscellaneous bugs in the system reported by users. `Java` `SQL Server` `T-SQL` `Javascript` `Closure` `Templates`
- Mentored an intern on adding Slack like reactions (emojis) to DESFlow and took it to production. Designed a schema scalable enough to react to any entity in the system.

### 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 Smart TV services. `Microservices` `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. `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](https://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`