

# Ritwik Sharma

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## Education

2015-2019

University Of Petroleum and Energy Studies (UPES)

- B.Tech. Computer Science & Engineering Specialization in Open Source & Open Standards

## Honors & Awards

- Earned rewards at LinkedIn for Ownership and Collaborations
- Earned Reward points at Red Hat for good and quick work
- Best minor project award out of 200 projects at ProjectExpo 2017
- Secured 1st rank among various coders in coding event "DART AND DASH" during Digital India Week

## Extracurricular Activity

- Mentor at CoachIn upskilling women engineering students across India to land their dream jobs/internships.
- Completed AI 200 (AI Academy) at LinkedIn
- Social Impact (CSR) core committee member at LinkedIn
- Co-leading LaunchIn with Trampoline Singapore.

## Skills

Programming: *proficient* - Python, Java, C, C++

Others: Distributed Systems, System Design, Infrastructure, Networking, Linux, Git

## Experience

Oct 22 - Present **LinkedIn**

clickable

Bangalore

### Sr. Software Engineer

**gRPC**: Next Generation Service Infrastructure - Collaborating with Service Infrastructure team

- Developed gRPCurli - a LinkedIn wrapper over **gRPCurl** that lets you interact with gRPC servers. It's basically curl for gRPC servers.
- Implemented some important features in gRPCurli such as Invocation Context, RPC header, Distributed Tracing, Datavault authentications, DV Fast access, D2 Proxy, Call tree and Streaming.
- Distributed to 500k systems including Prod, Corp and Dev.
- Working on gRPC service exploration in Sceptre (Service Discovery - to discover, explore and experiment with gRPC resources and APIs).
- Working on Discovery and Exploration of Entity Relationships

**Ravens**: Notification subscriptions via email, call, messages and slack for incidents.

- Enhanced rate limiting for message and call notifications.
- Working on incident summary generation using GenAI.

**Site Health**: Health status of different verticals such as traffic status, Issue Auditing, DB Mappings, Loadtest & Growth Dashboards.

Mar 19 - Sep 22 **Software Engineer**

**SenSus**: A Deep Learning model based on the CNN, trained on top of pre-trained word vectors (Word2vec). Part of an Internal Site for Sentiment Analyses of LinkedIn related tweets.

- Developed using Tensorflow and achieves an accuracy of 85%.

**Omnibot**: A Slack bot based on Slack's Real Time Message API.

- Developed Failout Status plugin which fetches the current traffic status of POPs (Point Of Presence) & Fabric/ Colo (Datacentre) with current QPS, Buckets count, Failout ticket & time, etc.

May - Aug, 18

### Red Hat, R&D

Bangalore

### Software Engineering Intern

- Worked on **Red Hat Satellite**, Developed **Satellite Log Data Analyses tool** using ELK stack for log data indexed in Elasticsearch.
- Worked on **Red Hat Insights**, wrote rules for Satellite.

## Talks & Conference Presentations

ossna2022

### Open Source Summit North America 2022

Austin, Texas

Intellectual Cognitive Development in Artificial Intelligence

## Open Source

Google

Contributed at **Google pytype** and other repositories of **Google** GitHub

Since 2017

Collaborator and maintainer at **Up-For-Grabs**

GitHub

LinkedIn

Contributor at **SchoolOfSRE**

GitHub

aimacode

Code for the book "Artificial Intelligence: A Modern Approach" GitHub

## Projects

2018

### Celestial bodies detection using Deep Learning

Major 1

Transfer learning with an Inception v3 architecture model using TensorFlow used to classify images from Planets, Galaxies, Satellites, Etc.

2017

### Virtual Assistant

Minor 1

A linux based Virtual assistant on Artificial Intelligence in C

- Uses simplified "Multinomial Naive Bayes" algorithm for text recognition.

## Publication

### Linux based Virtual Assistant in C

Volume-6, Issue-1

International Journal of Advance Research, Ideas and Innovations in Technology