

# Shiv Shankar Singh

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## TECHNICAL SKILLS

- Languages: Golang, C, Python.
- Database: MySQL.
- Technologies: REST API, Docker, Kubernetes.
- Subject of interest: Data Structures and Algorithms.
- Monitoring tools: Prometheus, Grafana.

## WORK HISTORY

### Company: OpsRamp

### Role: Associate Product Developer

Nov 2020 - Present

- Integrated Kubernetes events with our product to monitor and alert, state of different Kubernetes entities in the cluster like pods, nodes, namespace.
- Written plugins in golang for detecting and monitoring database application such as MySQL, PostgreSQL, OracleDB, CockroachDB, CouchDB deployed in host machine and containers

### Company: OpsRamp

### Role: Intern

Dec 2019 – Oct 2020 ( 11 Months)

- Written framework in golang for detecting Containerd, discovering Containerd containers, listening to events for alerts and monitoring Containerd containers.
- Written plugins in golang for detecting and monitoring application such as kubelet, kube metrics server, kube controller manager, Apache, hdfs-namenode, hdfs-datanode, Postfix, Squid, Elasticsearch deployed in host machine and containers.
- Integrating Prometheus Metrics.
- Written plugins in golang for detecting and monitoring application such as Riak, Neo4j, Nginx Ingress Controller deployed in host machine and containers.

## PERSONAL PROJECTS

### REST services, to maintain the product catalogue of an ecommerce | Golang, REST API, MySql.

- Build REST APIs to perform CRUD operations on entities Category, Product and Variant to maintain the product catalogue of an ecommerce.

### File Compression using Huffman Coding Algorithm| C.

- Using Huffman code algorithm, different number of bits are used to encode letters based on their occurrence. If the number of occurrences of any character is more, we use fewer numbers of bits.

### Visual Cryptography using KN Secret Sharing | Python.

- Image is encrypted using a key given by user. Further, the encrypted image is divided into N different shares using KN Secret Sharing Algorithm. The user needs only K of these shares and secret key to generate the original image.

## ACHIEVEMENTS

- 1st place in Code Surfing, JNTUV.
- 1st place in Debugging, JNTUV.
- 3rd place in Stepcone Hackathon, GMRIIT.
- 1st rank in Institute at GeeksforGeeks Coding platform.
- 6 Starred Problem-Solving Badge, HackerRank.

## EDUCATIONAL QUALIFICATIONS

Passout Year	Degree/Certificate	Institute/School	CGPA / %
2020	B. Tech-Computer Science and Engineering	Anil Neerukonda Institute of Technology and Sciences	7.83/10.0
2016	Class XII (CBSE Board)	Sri Chaitanya Techno School	81.8%
2014	Class X (CBSE Board)	Kendriya Vidyalaya SVN2	9.2/10

## RELEVANT LINKS

- [https://www.hackerrank.com/316126510050CSE?hr\\_r=1](https://www.hackerrank.com/316126510050CSE?hr_r=1)
- <https://auth.geeksforgeeks.org/user/sshankarsingh16cse/practice/>
- <https://github.com/shivshankarsingh98?tab=repositories>