

# Dhiraj Singh

COMPUTER SCIENCE UNDERGRADUATE · IIT BHU

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## Education

### IIT (BHU)

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING, CGPA: 8.78

Varanasi, India

July 2015 - May 2019

## Work Experience

### Nutanix

MEMBER OF TECHNICAL STAFF

- Worked with CEREBRO team for Disaster Recovery of Virtual Machines.

Bangalore, India

May 2018-July 2018

## Honors & Awards

- 2019 **India Rank 3**, (Global position 11) in Codechef January Long Challenge(10 day long International Algorithmic Programming Contest).
- 2018 **India Rank 2**, (Global position 14) in Codechef December Long Challenge.
- 2018 **India Rank 1**, (Global position 10) in Codechef August Long Challenge.
- 2018 **India Rank 1**, (Global position 5) in Codechef May Long Challenge.
- 2018 **India Rank 5**, (Global position 12) in Codechef April Long Challenge.
- 2018 **India Rank 4**, (Global position 12) in Codechef February Long Challenge.
- 2018 **India Rank 1**, (Global position 7) in Codechef January Long Challenge.
- 2017 **India Rank 1**, (Global position 8) in Codechef December Long Challenge.
- 2017 **India Rank 6**, (Global position 21) in Codechef November Long Challenge.
- 2017 **India Rank 4**, (Global position 27) in Codechef September Long Challenge.
- 2017 **India Rank 5**, (Global position 27) in Codechef August Long Challenge.
- 2017 **India Rank 3**, (Global position 18) in Codechef June Long Challenge.
- 2017 **India Rank 5**, (Global position 12) in Codechef May Long Challenge.
- 2019 **Google Code Jam Kickstart**, Round A- Rank 140, Round B- Rank 57, Round C- Rank 200.
- 2018 **Team Rank 28**, ACM-ICPC Amritapuri Regionals 2018
- 2017 **Google Code Jam Kickstart**, Round E- Rank 80, Round F- Rank 87, Round G- Rank 61.
- 2017 **Team Rank 50**, ACM-ICPC Amritapuri Regionals 2017
- 2014 **NTSE(National Talent Search Examination) Scholar**, since 2014.

## Technical Skills

- **Programming Languages:** C, C++, Python, Cuda-C, C#, MySQL, CLisp, Java, JavaScript, Assembly and Bash Scripting.
- Strong understanding of data structure, algorithms and parallel algorithms.

## Notable Projects

- **Heterogeneous work partition (Jan 2018 - Apr 2018)**
  - Finding connected components of a graph using SIMD architecture of GPU in cuda C and multicore CPU by graph partitioning.
  - Parallelized Disjoint Set Union Data Structure.
  - Technologies used- C, C++, Cuda-C, Python, OpenMP and Bash Scripting.
- **Influence Maximization in Social Network (Jan 2018 - Apr 2018)**

- Deducing a new, fast and memory efficient heuristic approach for influence maximization in social network.
  - Created clusters in a network to find communities.
  - Technologies used- C++, Python and Bash Scripting.
- **Capacitated Vehicle Routing Problem (CVRP) (Jan-Apr'17)**
    - Developed a parallel algorithmic heuristic for CVRP problem.
    - Technologies used- Cuda-C programming language.