Dhiraj **Singh**

COMPUTER SCIENCE UNDERGRADUATE · IIT BHU

☐ (+91) 836-888-1015 | ✉ dhiraj.singh.cse15@iitbhu.ac.in | ⌨ dhirajfx3 | 🔗 dhirajfx3

Sum**mary**

Computer science undergraduate completing the final year of a bachelor's degree. Passionate about programming, with strong technical and interpersonal skills for working in a team and successfully completing a project.

Edu**cation**

IIT (BHU)   *Varanasi, India*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING, CGPA: 8.80/10.00   *July 2015 - present*

Wor**k Experience**

Nutanix   *Bangalore, India*

MEMBER OF TECHNICAL STAFF   *May 2018-July 2018*

- Implemented Nutanix Cluster Checks, raising alert in case of failure.
- Implemented unit tests.
- Gained knowledge of virtualization technology and disaster recovery.

Hon**ors & Awards**

INTERNATIONAL

2018   **India Rank 1**, (Global position 10) in Codechef Long Challenge(10 day long International Algorithmic Programming Contest) August.

2018   **India Rank 1**, (Global position 5) in Codechef Long Challenge May.

2018   **India Rank 1**, (Global position 7) in Codechef Long Challenge Jan.

2017   **India Rank 1**, (Global position 8) in Codechef Long Challenge Dec.

2017   **Google Code Jam Kickstart**, Round E- Rank 80, Round F- Rank 87, Round G- Rank 61.

DOMESTIC

2017   **Among 30**, programmers selected for Indian Programming Camp.   *India*

2014   **NTSE**, Scholar since 2014.   *India*

Tec**hnical Skills**

- **Programming Languages:** C, C++, Python, Cuda-C, C#, MySQL, CLisp, Java, JavaScript, Assembly and Bash Scripting.

- Strong understanding of data structure and algorithms.

- Knowlege of Parallel Algorithms.

Not**able Projects**

- **Heterogeneous work partition (Jan-Apr'18)**

    - 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.

    - Techologies used- C, C++, Cuda-C, Python, OpenMP and Bash Scripting.

- **Influence Maximization in Social Network (Jan-Apr'18)**

    - Deducing a new, fast and memory efficient heuristic approach for influence maximization in social network.

    - Created clusters in a network to find communities.

    - Techologies used- C++, Python and Bash Scripting.

- **Course Management Website (Aug-Nov'17)**

    - Website for managing Faculty of Arts BHU.

    - Techologies used- Flask Framework, JS and Cryptography.

- **Capacitated Vehicle Routing Problem (CVRP) (Jan-Apr'17)**

    - Developed a parallel algorithmic heuristic for CVRP problem.

    - Techologies used- Cuda-C programming language.

- **Flask based website (Aug-Nov'16)**

    - Developed a website for management of rooms in college and managing course content like tutorials, previous year exam papers..

    - Techologies used- HTML-CSS, JS and Python.

Interests

- Competitive programming.

- Heuristic development for NP-Hard Problems.

- Data Mining