

Akash Sharma

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EDUCATION

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA

B.TECH IN COMPUTER SCIENCE
Aggregate CGPA: 8.0/10.0
2017-Present

SAINT SOLDIER PUBLIC SCHOOL

CBSE | JAIPUR, INDIA
Intermediate: 85.2% | 2016
High School: 9.0/10.0 | 2014

LINKS

Portfolio:// Akash Sharma
Github:// Akash-Sharma1
LinkedIn:// akash-sharma-cpp
Codechef:// akash_sharma01
Codeforces:// akash_sharma100

SKILLS

PROGRAMMING

- C • C++
- Data Structures
- Algorithms
- Problem Solving
- Python • Django

CERTIFICATES

CODECHEF CERTIFIED ADVANCED LEVEL EXAM

Successfully Completed Codechef Advanced Level certification Exam in Data structures and Algorithms.

POSITION OF RESPONSIBILITY

KNUTH PROGRAMMING HUB

•Coordinator
Problem setter | conducted coding events like Encode, Execute and Knuth Cup. |
Teacher in programming workshops |
(2019 - 2020).

IEEE STUDENT BRANCH IIIT

•Technical Officer CSE
Problem setter | Mentor in Techblocks |
Conducted Programming DSA workshops. |
(2019 - 2020).

PROJECTS

FACTOR ANALYSIS AND HOTSPOT VISUALIZATION APPLICATION.

- Factor analysis visualization tool based on GRHD Hotspots.
- This application takes the data of any activity in an area as input and outputs
 - 1• The factors that influence the distribution of the given data
 - 2• The regions which are statistically significant.
- Factor analysis is based on characteristics of Circular Geographically Robust Hotspots.
- Data is visualized along with corresponding hotspots and factors.
- Detection uses Cubic Grid Circle algorithm.
- Significance of hotspots is calculated by Monte Carlo simulations.

COLLABORATIVE TEXT DOCUMENT SHARING APPLICATION WITH VERSION CONTROL SYSTEM, REAL TIME CHANGE CONSISTENCY AND TEXT COMPARISON FEATURE.

- This project creates a document that can be shared among users.
- The changes are reflected to all the users in real time.
- Version control system is Space optimized and uses a diff based storing approach.
- Application includes Branch creation, history, rollback, merge, push and pull feature.
- Conflict resolution is done via text comparison which further uses longest common sub-sequence to get the differences between two documents.

METRO INFORMATION APPLICATION

- A console-based Metro Information application implemented in C++.
- This application takes 2 stations one source and one destination as inputs and show you the route to be followed along with distance between two stations, time needed, fare and station interchanges.
- Follows Single source shortest path graph algorithm - Dijkstra.

NOKIA SNAKE GAME VISUALIZER

- A console based snake game.
- Used the operations and Loop detection in Linked List.
- Features includes auto speed increment over time and size increments on every successful point.

ACHIEVEMENTS AND ACTIVITIES

- Ranked 2nd among 276 participants | Knuth Cup | 2020
- Hackerearth Problem Setter | EasyPalindromes - Dec DS Algo 2019
- Ranked 5th in IIIT | Global Rank: 29th out of 2765 | Codersbit 2.0
- Ranked 2nd among 214 participants | Knuth Cup | 2019
- Ranked 3rd among 200 participants | Execute | 2019
- Global Rank: 20 out of 1865 | 10 in India | April Cook off 2019
- Global Rank: 95 out of 1266 | 43 in India | October Challenge 2019
- Rank: 15th out of 143 teams | PROSORT | 2019
- Given lectures on Competitive programming and DSA at MNIT.
- ZIO Editoralist | ZIO-17002 and ZIO-18002