

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

COURSEWORK

- Data Structures and Algorithms
- Computer Networking
- Operating Systems
- Database Systems
- Object oriented programming

LINKS

Portfolio:// akash-sharma1.github.io

Github:// Akash-Sharma1

LinkedIn:// akash-sharma-cpp

Codechef:// akashsharma01

Codeforces:// akash_sharma100

SKILLS

Programming

- Data Structures
- Algorithms • Problem Solving

Languages

- C • C++ • Python • php • Javascript

Frameworks

- Django

Databases

- MySQL • Postgres

CERTIFICATIONS

CODECHEF ADVANCED LEVEL CERTIFICATION

In Data structures and Algorithms

PUBLICATIONS

DYNAMIC SEGMENT TREES

GEEKS FOR GEEKS

EXPERIENCE

SOFTWARE DEVELOPER INTERN

EMPROTO TECHNOLOGIES

2020 - present

PROJECTS

ONLINE PLATFORM FOR PROGRAMMING CONTEST.

CONTESTARENA.HEROKUAPP.COM | MAR - APRIL 2020

- This web application helps user to access codechef's programming contests.
- Feature includes: recent activities, timer, live leaderboard, run code in ide.
- The application uses Codechef Api for contest data retrieval and ide tools.
- Tech stack used: React, Js, Php, Mysql, Slim Framework.

COLLABORATIVE TEXT DOCUMENT SHARING APPLICATION WITH VERSION CONTROL SYSTEM, REAL TIME CHANGE

CONSISTENCY AND TEXT COMPARISON FEATURE. Nov 2019 - FEB 2020

- This project creates a document that can be shared among users.
- The changes are reflected to all the users in real time.
- 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.
- Tech stack used: Python, Js, Django, Postgres db.

FACTOR ANALYSIS AND HOTSPOT VISUALIZATION APPLICATION. SEPT - NOV | 2019

- 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.
- Tech stack used: Python, Js, Django.

METRO INFORMATION APPLICATION MAY - JUNE | 2019

- A console-based Metro Information application.
- 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.
- Tech stack used: C++.

NOKIA SNAKE GAME VISUALIZER JUNE | 2018

- A console based snake game.
- Used the operations and Loop detection in Linked List.
- Tech stack used: C++.

PROGRAMMING ACHIEVEMENTS

2020 10th Place / 3302

2019 29th Place / 2765

2020 2th Place / 270

2019 20th Place / 1865

2019 Given Lectures on DSA

Expedia Travel Transforms Contest

Codersbit 2.0 | Interview bit

Knuth Cup | IIIT

April Cook off | Codechef

at MNIT Jaipur