Divyansh Vinayak

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Education

Indian Institute of Technology Mandi   **July 2019 – July 2023**
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.27   *Himachal Pradesh, India*

Relevant Coursework

- Data Structures
- Algorithms
- Databases
- Data Science
- Computer Organization
- Probability and Statistics

Experience

Indian Institute of Technology Mandi   **August 2021 – present**
Teaching Assistant   *Himachal Pradesh, India*

- Assisting in framing questions for the coding assignments and evaluating their solutions after the deadline.
- Helping students to complete their lab activities and assignments in time by clearing their doubts and finding bugs in their codes.

Projects

Unix Shell | *C*   **August 2021**

- Built a basic interactive shell that can execute processes in the foreground or background with input/output redirection and pipelining.
- It supports changing the current working directory and providing related information about a particular process.

Instant Messaging Application | *Dart, Flutter, Socket.IO, Hive*   **May 2021**

- Developed an Android application using Dart and the Flutter framework to send and receive text messages to other users individually or in groups.
- Messages are delivered in realtime using the WebSocket based server deployed on Heroku.
- It supports all CRUD operations and also has a typing indicator.

Dynamic Segment Tree | *C++*   **December 2020**

- Implemented a header file for dynamic segment tree by using the augmented red-black tree data structure.
- It supports insertion, deletion, search, range query and update in logarithmic time complexity.
- Ran a benchmark to compare its performance with a naive algorithm.

Technical Skills

Languages: C, C++, Python, Java, JavaScript, Dart, SQL, HTML/CSS
Frameworks: Flutter, NodeJS, ExpressJS, Socket.IO, Django, Hadoop, Git
Databases: MySQL, MongoDB, Hive

Achievements

- **ICPC 2020**: Represented IIT Mandi at the ICPC 2020 Gwalior-Pune Regional Contest securing the rank 264 out of 1107 participants – ICPCID.
- **Facebook Hacker Cup 2021**: Qualified for round 2 – Certificate.
- **Google Code Jam 2021**: Qualified for round 1 – Certificate.
- **CodeChef**: Achieved 5 star on CodeChef with a rating of 2056. Handle – divyansh_io.
- **LeetCode**: Became Knight on LeetCode with a rating of 1880. Handle – divyanshvinayak.

Extracurricular

- Core Team Member of Space Technology and Astronomy Cell, the astronomy club of IIT Mandi.
- Web Developer for the website of AstraX'20, the intercollegiate astro-meet of IIT Mandi.