OM ASHISH SONI

BTech in Computer Engineering (2020 - 2024)

Codeforces : om_ashish_soni (Expert - 1664 max)
Codechef : om_ashish_soni (5 ⭐⭐⭐⭐⭐ 2010 max , Top 0.7 %)
Leetcode : Om_Ashish_Soni (Guardian 2178 max , Top 1 %)

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WORK EXPERIENCE

SWE Intern at MasterCard
Vadodara, Gujarat , May 2023- July 2023
- Building an **innovative and scalable solution of DB Scheduler for Production Fixes & Data Migration** as part of the **MDES team**.
- **Parallel and Asynchronous execution** of jobs by **Thread Pooling.**
- **Auto scheduler for Traffic monitoring** and **execution** of job by **detecting low load situations.**
- A solution for **auto generating PL/SQL for Oracle DB Scheduler.**
- **Horizontal scaling & load balancing** by executing jobs on **multiple APP Instances.**
- Working on **JAVA, Spring Boot, Oracle, Hikari, Quartz**.

SDE Intern at Simulas
Ahmedabad, Gujarat , Nov 2024 - April 2024
- *Team Leader* of *database migration team from raw data to MongoDB cloud.*
- *Improved the system* by *430%* by Solving **30+ Bugs** in the *Auto Report Generating System*.
- *Innovating* solution of *Room Locking Service.*
- Worked on *AWS S3* , *Node, Express* , *EJS, JWT*, **MongoDB.**

VOLUNTEER EXPERIENCE

Campus ambassador of TCS
Ahmedabad, Gujarat , June 2022 - May 2023
- *Supporting students of Dharmsinh Desai University to apply and land a career in TCS.*

President of Codechef DDU chapter
Nadiad, Gujarat , July 2022 - August 2023
- *Guided **100+ students** on competitive programming**, taught** concepts of DSA , C++ STL to **80+ students**. Hosted a series of contests on competitive programming**.*

PROJECTS

AI Search Engine - Anusandhan (Web) : Source Code
- *Tech : **Mistral LLM, Python, Streamlit, Node, Playwright***
- *AI-powered search engine providing **real-time search** capabilities with **AI generated concise answer** and **reference sources**.*

Competitive Coding Hub (Web, Android, IOS) : Source Code
- *Tech : **MongoDB, Angular, Node , Express, Flutter, JWT , ACE lib***
- *Competitive programming* and *DSA* practice software providing *compile-run* and *submit solutions* in *C++, Python, JS,* support for creating *backup of solutions* and *contributing new problems* to improve their creativity and problem solving skills*.*
- *IDE* support, Tagwise and difficulty wise practice .

Network Graph Visualizer (Web) :   Source Code , Try Live
- *Tech : **SVG, JQuery , JavaScript***
- *Interactive Heuristic solution* to *visualize* and download *graphs*, showcasing circular nodes and edges. with *real-time updates* and *synchronizing visualizations* with *dynamic input modifications*.

EDUCATION

B.Tech. CE - Dharmsinh Desai University
- 2020 - 2024 | Nadiad
- **CPI : 9.73 / 10.0**

RESEARCH WORK

NLP POS-Morphological Analysis
Dharmsinh Desai University, July '23 - Feb '24
- **Research** on **Gujarati Part of Speech tagging** and **Morphology Analyzer** with **deep learning** by augmenting **Custom layer** on **BERT architecture** for token classification , predicting **POS & MORPH** tag for words with **95% accuracy**.

Vivechan - AI Spiritual Assistant
Dharmsinh Desai University, March '23 - April '24
- Ground breaking **AI system capable of QnA** and **discussions** on **spiritual matters** using **FAISS AI similarity search** (Vector Search - Cosine Similarity) from **Spiritual Knowledge Base** , Efficient Context generation from search results and **AI powered Answer generation** LLM.

ACHIEVEMENTS

Global Rank 1, winner of GeeksForGeeks contest 105

Global Rank 4, Code Studio weekend contest 80

Global Rank 9 in Hackerearth April Easy Contest

India Rank 11 , in Atcoder Beginner 300

Global Rank 64 , in Codechef starters 43B

Global Rank 288, Codeforces 832 (Top 0.8%)

SKILLS

- Core Skills :
  - **Competitive Programming, OOP** , **DBMS** , **Software Engineering, AI, Deep Learning, NLP**, ML
- Programming Languages :
  - **Java, Python** , C++, JavaScript
- Database :
  - **Oracle, MySQL, MongoDB, FireBase**
- Web & Software Development :
  - **Spring Boot** , **Spring MVC, Node** , **Express** , React , Angular
- Tools :
  - **Google Cloud, Docker, AWS S3, Git, BitBucket, GitLab, PostMan, IntelliJ**