

Roshan Soni

Industrial Design Department
Bachelor of Technology
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EDUCATION

•National Institute of Technology, Rourkela

Bachelor of Technology in Industrial Design

2021-25

CGPA: 8.38

EXPERIENCE

•Backend Development Intern

June - July 2024

Realate

Online

- Implemented a special-25 liking and matching algorithm for maintaining a consistent interest while using App
- Utilized NodeJS, expressJS, mongodb and priority queue Data Structure for efficient matching of profiles
- Utilized Cloud functions, Firestore database of Firebase for implementing Scheduler function of liking feature
- Implementing these features can reduce user's boredom by 25% & increase number of times App opens by 20%

•Research & Development

July - November 2023

National Institute of Technology, Rourkela

Offline

- Developed multi-purpose Robotic arm with 4 degrees of freedom under supervision of Prof. BBVL Deepak, NITR
- Utilized Arduino Mega, VS code, C language, Solidworks, 3-D Printer, Creality with various electronics components
- This work is a prototype of an Autonomous painting tool for large Cylinders which is a funded project of ISRO

•Software Development Intern

May - July 2024

Datsol Solutions

Online

- Implemented a ChatBot using Open-AI Generative Pre-trained Transformer 3.5 API in a client's web-App
- Utilized ReactJS framework, expressJS framework and storage of firebase for further analysis on gathered data

PERSONAL PROJECTS

•Cardiac Solutions

An app for Detecting cardio vascular disease, providing tips and exercises for healthy Heart

- Developed an App which detects cardiac problems and suggests necessary tips and exercises for healthy heart
- Utilized ReactNative framework, firebase storage, firebase firestore db, neural network and LLM's APIs
- It provides 10 Yoga asanas, 12 exercises tutorials with various AI suggestions for improving Cardiac health
- This App calculates Risk factor of a person by taking 13 different inputs & reduces it by 20% for daily users

•NPM package

Npm package for Developers

- Developed npm package for JavaScript developers "jsds-rs" for ease the use of Data Structures STLs in JavaScript
- Utilized nodeJS runtime environment, Object oriented Programming and npm-js.com for package publication
- It reduces the time of JavaScript developers upto 25% depending upon use of Data Structures, STLs on Code

ACHIEVEMENTS

- Code for freedom** Got a rank of 450 among 7000+ participants in a Contest by Coding Ninjas 2023
- LeetCode** Become top 5.05% programmers on leetcode by achieving knight badge (rating - 1880) 2024
- CodeChef** Achieved a rating of 1720 (3-Star) at Codechef by solving 400+ programming problems 2024
- HackNITR** Got 11-th rank among 75+ teams in HackNITR, India's largest student's run Hackathon 2024
- Codeforces** Got specialist rank by achieving a rating of 1418 on Codeforces by solving 400 problems 2024

TECHNICAL SKILLS

Languages: C/C++, Javascript, Python, MYSql, HTML, CSS

Frameworks & tools : ReactJS, ReactNative, NodeJS, expressJS, Numpy, Pandas

Softwares: VsCode, MySql Shell, Anaconda Navigator, POSTMAN, ThunderClient, Pycharm

Relevant Courses: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Computer Networking, Machine learning and Deep learning

POSITIONS OF RESPONSIBILITY

•Coordinator Aeroprix, Udaan National Institute of Technology, Rourkela

Oct - Dec 2022

- Managed more than 20 participated teams @ Aeroprix for successful participation till execution
- Successfully planned rules, organize setups, and distributed prizes among winner teams