Rongala Vijaya Pranathi Mrunalini
UG (III Year I Semester)
B.Tech. (Computer Science and Engineering)
Contact No: 7794810060
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Registration No: 21114084/2024

Indian Institute of
Technology
Roorkee

VERIFIED

Area of Interest

Data Structures and Algorithms, Web Development, Competitive Programming

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	6.253
2021	Intermediate (Class XII)	Tirumala Junior College	98.70 %
2019	Matriculate (Class X)	Dr K.K.R's Gowtham Concept School	10.000

Projects

SIC-XE Assembler | Indian Institute of Technology, Roorkee   March 2023 - April 2023
  • Developed a two-pass assembler in C++ for the SIC/XE instruction set.

Car Pooling | Indian Institute of Technology, Roorkee   January 2023 - June 2023
  • A Web application that provides an e-platform for drivers and passengers to find passengers to travel with and benefit by providing all the details regarding the ride.
  • Designed fronted using Figma and developed both frontend and backend using React.
  • Used Firebase Auth for user Authentication and Firebase firestore for storing data.

Design and Implementation of Configurable Cache Simulator | Indian Institute of Technology, Roorkee
September 2022 - October 2022
  • Developed efficient cache memory system incorporating the Least Recently Used (LRU) replacement policy effectively tracking hit frequency.
  • Incorporated essential metadata components and algorithms to maximize performance and optimize data retrieval.

Design and Simulation Of 5 stage Pipelined Processor | Indian Institute of Technology, Roorkee
July 2022 - September 2022
  • Designed and implemented the pipelined processor in C++ with an optimized cpi considering the dependencies to avoid errors.
  • This takes the assembly code as input and outputs the result of the CPU operation.

Assignment Hub | Indian Institute of Technology, Roorkee   July 2022 - November 2022
  • An assignment tracking mobile application for educators simplifying the task of maintaining student assignment completion status.
  • Designed a visually appealing UI using Figma and implemented the app using Kotlin in Android Studio.
  • Used Google Firebase to store the data.

Awards / Scholarships / Academic Achievements

  • Secured an All India Rank of 3090 in open category and a rank of 498 in OBC category in JEE Advanced 2021.
  • Secured an All India Rank of 5992 in open category and a rank of 1076 in OBC category in JEE Mains 2021.

Skills

Computer languages   C++, Java, CSS, HTML
Software Packages   Visual Studio Code
Languages Known   Telugu, Hindi, English

Positions of Responsibility & Extra Curriculars

Girls' representative | Students' Club, Indian institute of Technology, Roorkee   July 2022 - April 2023
  • With the position of Girls' representative in Students' Club, took part in conducting various tournaments and workshops.

References

R. Balasubramanian
Professor
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