

VADAPALLI NITHYA SREE

Third Year Undergraduate
Electronics & Electrical Communication Engineering
Indian Institute Of Technology, Kharagpur

@nithyasreevadapalli727@gmail.com

+91 7386869794



EDUCATION

Indian Institute Of Technology, Kharagpur
B.Tech., EECE CGPA: 8.11/10

2021 - Present Kharagpur, India

Sri Chaitanya Junior College
XII, IPE Percentage: 98.6

2019 - 2021 Hyderabad, India

Sri Chaitanya School
X, SSC CGPA: 10/10

2019 Hyderabad, India

ACADEMIC ACHIEVEMENTS

- Secured a rank among the **top 3%** of over **1.6 lakh** candidates all across India who appeared for **JEE Advanced 2021**
- Secured a rank among the **top 1%** of over a **million** candidates all across India who appeared for **JEE Main 2021**
- Secured a rank among the **top 0.6%** of over **1.6 lakh** candidates from Telangana who appeared for **TS EAMCET 2021**
- Recipient of **TSPW Meritorious Scholarship** since 2021, which is initiated and funded by TSP Welfare
- Scored 346/450 in **BITSAT-2021** securing a position in **top 1%** among 2 lakh students

COURSEWORK

Programming Courses

Beginner to Advanced - C++

Data Structures and Algorithms

Programming and Data Structures

Mathematics Courses

Probability and Statistics

Linear Algebra and Optimisation Models

Advanced Calculus

Other Courses

Digital Electronic Circuits

Analog Electronic Circuits

Signals and Systems

SKILLS

Programming skills

C | C++ | Python | HTML | CSS

Libraries/Tools

C++ STL | Visual Studio code | Git |
TinkerCAD | LT Spice | Adobe Photoshop |
Adobe After Effects

PROJECTS

OPTITRACK

May 2023

- Developed a transportation network analysis tool in C++ for optimizing routes between stations
- Employed a **CSV** file parsing mechanism to extract data, facilitating node and edge identification
- Implemented an efficient algorithm based on **Dijkstra's algorithm**, enabling the calculation of the shortest path between two stations

ROOM BOOKING SYSTEM

May 2023-June 2023

- Designed and implemented a web-based room booking system using **SQLAlchemy** and **flask's** routing capabilities
- Ensured the utmost security and data integrity, stringent measures have been implemented for secure **data storage and retrieval** of sensitive user information, booking details and room availability data
- Utilized Flask's templating engine to create dynamic and interactive webpages such as searching for available rooms, selecting desired accommodations, and securely completing the booking process

SUDOKU SOLVER

March 2023

- Implemented a **backtracking algorithm** for solving Sudoku puzzles, exploring all possible combinations until a valid solution is found.
- Utilized a recursive approach to systematically fill empty cells while checking constraints to ensure valid moves.
- Efficiently verified number placement using bit manipulation techniques

POSITIONS OF RESPONSIBILITY

Associate Member-Spring Fest, IIT Kharagpur

- Lead a team of **11** Campus Ambassadors for the publicity of the fest, implementing successful marketing strategies
- Successfully organized and conducted an online introductory seminar, engaging over **100** students from various colleges and seamlessly executing the fest's online mode and implementing robust publicity strategies, resulting in an impressive participation of over 2000 students

EXTRA CURRICULAR ACTIVITIES

Competitive Programming

- Actively participate in competitive coding contests on popular online platforms like **codeforces**
- Earned a **golden badge** with **five stars** in C,C++ on HackerRank platform

Cultural Activities

- Actor and script-writer at the Technology Dramatics Society - **Prasthanam**, IIT Kharagpur
- Member of **Choreography** Team of SN/IG Hall of Residence, IIT Kharagpur for the session 2022-2023
- Part of Rangoli Team of SN/IG Hall of Residence that stood **4th** among 15+ participating teams of various halls
- Natural Cultural Appreciation** - Engaged in instrumental music (flute and harmonium)