

# Sarang Sridhar

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## EDUCATION

### Birla Institute of Tech. and Science (BITS) Pilani

#### BS IN COMPUTER SCIENCE

Aug 2020-Present | Pilani, India  
GPA: 8.56 / 10.0

### Devi Academy

Grad. May 2020 | Chennai, India

## COURSEWORK

### Computer Science

Data Structures and Algorithms  
Database Systems  
Object Oriented Programming  
Microprocessors  
Logic in computer science  
Digital Design

### Math

Linear algebra  
Probability and statistics  
Calculus  
Differential equations

## SKILLS

### Proficient:

C++ • C • JavaScript (jQuery, Node.js,  
React, Redux) • SQL • CSS • HTML • Git  
• Firebase

### Experienced:

Java • Python (Django, Numpy, PyTorch,  
Tensorflow)

### Familiar:

LaTeX • ROS • Gazebo

## ACHIEVEMENTS

- Top 0.1% in the JEE Mains Examination (among 2.5 million candidates), 2020.
- Top 0.1% in the BITSAT Examination (among 0.3 million candidates), 2020
- Top 1.5% in the JEE Advanced Examination (among 0.15 million candidates), 2020.

## PROJECTS

### Inter-BITS Sports Meet Website | SPRING 2022

Full-Stack Developer, [Student Union Tech Team](#), BITS Pilani

A [web app](#) for player registration in 48 sporting events; includes a [captain allotment portal](#) and a [team formation portal](#) for 400+ teams across 5 campuses of BITS Pilani.

- Built an integrated player signup and payment system with React, an automated mailing API with Django.
- Created a customized admin panel for organizers in various roles with Django.

### Auction Management System | SPRING 2022

[Course Project](#): Database Systems

- Designed a 4NF-normalized database for online auctions with a concurrency control mechanism capable of simultaneously handling multiple requests.
- Interfaced the database, using React, with input from front-end users entered via dynamic SQL queries written in Node.js.

### The Studyzone platform | FALL 2021

Full-Stack Developer, [Student Union Tech Team](#), BITS Pilani

A cross platform student productivity app for crowd sourcing academic documents with quality control via user provided feedback and ratings. The app includes 3000+ verified documents to serve the academic needs of 5000+ students in BITS Pilani.

- Leveraged Redux and React to enable users to add courses, view documents, and upload their own documents across different platforms.

### The Taxicab Web Dashboard | FALL 2021

Full-Stack Developer, [Student Union Tech Team](#), BITS Pilani

A [web dashboard](#) for administrators of BITS Pilani's affiliate taxicab service to analyze overall and individual cab ride statistics in real-time and offer students better rates. This service has over 750 completed trips and helps 2500+ students.

- Integrated REST APIs in React to equip admins to create various trip packages, and offer different rates for different cab types.

## RESEARCH

### Sentry Robot | APR 2022 - PRESENT

[Guide](#): [Prof. Avinash Gautam](#), BITS Pilani

- Working towards a motion capture bot that uses a LIDAR sensor to detect intruders and swivels a camera towards the intruder to identify them.

### Speech Understanding and Conversation Bot | JAN 2022 - PRESENT

[Guides](#): [Dr. Santosh Yadav](#), National Univ. of Ireland, [Prof. K. Tiwari](#), BITS Pilani

- Utilizing 'AV-HuBERT', a vision-to-text large language model, to convert videos of speakers to text; followed by another large language model to form a reply.

### Real-Time Search Engine Optimization | JAN - APR 2022

[Guide](#): [Prof. Amit Dua](#), BITS Pilani

- Identified best SEO practices to enhance the reach of a FinTech web app.

## POSITIONS OF RESPONSIBILITY

### Mentor, Peer Mentorship Program | AUG 2021 - PRESENT

Selected based on academic record, ethics and peer review to guide 7 freshmen mentees in academic and co-curricular pursuits.