

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

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 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.

Simulating AirBNB | FALL 2021
[Course Project:](#) Object Oriented Programming

- Programmed a property rental app in Java that allows managers to add properties and customers to sort by date and property features to book listings.

RESEARCH

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.