

Shikha Brahmachari

CONTACT

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EDUCATION

**NETAJI SUBHAS
UNIVERSITY OF TECHNOLOGY**
BACHELOR OF ENGINEERING
Information Technology
CGPA : 8.47
Expected May 2021 | Delhi

ST.MARY'S SCHOOL, DELHI
CLASS XII (2015-2016)
CBSE: 90.4%
CLASS X (2013-2014)
Percentage: 91.2%

SKILLS

LANGUAGES

C++/C, python, HTML, CSS
Javascript

DATABASES

Sql, MongoDB

FRAMEWORKS AND TOOLS

React, Express, Node, P5, Postman
Git

EXTRA CURRICULARS

- Reached the finals at HACKMSIT, competing against 198 registered teams.
- Participated in SwitchCode competition at IIIT, Delhi
- Participated in several street plays and theatre competitions.
- Attended 5 Model United Nation Conferences.

RESPONSIBILITIES

Director General | 2019-2020
The Debating Society of NSUT

USG International Press | 2019-2020
NSUTMUN | Colloquium

Executive Member | 2018-2019
Crosslinks, the Media Management Society of NSUT

EXPERIENCE

RESEARCH INTERN | MAY 2020 - PRESENT

Center for Advanced Information Technology Field Studies | NSUT

- Working on areas related to **Cyber-Physical Systems**
- Studying about Machine Learning techniques and their applications to improve diagnostics and industrial processes.

PROBUS SMARTTHINGS PVT.LTD. | DECEMBER'18-JANUARY'19

Web Development Intern

- Contributed to their 'Water Sensor Project' by developing a fully functional and user interactive website.
- Successfully Implemented Javascript libraries such as slick.js, animate.js etc for enhanced user interactivity.
- Statically routed data from the projects API to the website and applied chart.js to display the data

PROJECTS

REAL TIME CHAT APP

- Designed a real time chat application which can be used as a communication platform.
- Users can create their own chat room codes and chat with specific users at an instant which ensures privacy between them.
- Users can also use this as a discussion forum to establish communication amongst different peers .
- Built on React.js, Express.js and Socket.io.

SORTING VISUALIZER

- A sorting visualizer built on React.js that performs visualization of various sorting algorithms to sort an array.
- User can create a new array and choose the specific sorting algorithm they want to apply to sort the array and thereafter the visualization is performed.

GENERATIVE ART

- Generative Art is the art of interaction of order and randomness. It is a process of algorithmically generating new ideas, forms, shapes, colors or patterns.
- Created visually attractive generative art by using Fractal Tree, Lsystem Tree, Cellular Automata, Phyllotaxis and Perlin Noise.
- P5.js was used for creating the artwork.

WASTE MANAGEMENT

- A web portal to bid on waste materials. A step towards efficient waste management. Users can use this portal to upload information about their waste to sell instead of dumping the waste.
- Used Javascript, HTML, CSS to build frontend and stored user database in MongoDB with Nodejs at backend.

PUBLICATIONS

BOOK CHAPTERS

- Co-Author: **"Roles of IOT and sensors in achieving sustainability", Chapter (V)** in Green Automation for sustainable environment *Accepted for Publication with CRC Press, Taylor and Francis Group.*
- Co-Author: **"Cryptocurrency Mechanisms for Blockchains, Chapter(III)** in Handbook of Research on Blockchain Technology." *Published with Elsevier.*