

Rahul Bangar

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EDUCATION

B.Tech in Computer Science and Engineering

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Expected Graduation Date: July 2024

Tamil Nadu, IN | December 2020 - Present

LANGUAGES

Hindi: Native

English: Proficient

SKILLS

Programming Languages: C, C++, Python

Web Development: HTML, CSS, JavaScript

Database: MySQL

Others: Android Studio, Blender, Unity, VS Code, MS Office, \LaTeX

EXPERIENCE

ACCENTURE | SOFTWARE ENGINEER ANALYST

Intern | June 2023 – July 2023

VORTEX | PUBLICITY COORDINATOR

NIT, trichy | November 2021 – Present

- Worked in **Vortex'22**, and **Vortex'23** which is the Annual National-level Technological Symposium of the CSE department.
- Worked closely with the team in increasing and transcending the hype & reach of the fest to various colleges throughout India.

PROJECTS

LORENTZ AND SPI FACTOR CALCULATOR

OCTOBER 2021

- Developed a Lorentz factor calculator in Android Studio using JAVA which takes the velocity of the moving observer as input and displays the Lorentz factor.
- Added a feature, practice session to calculate the same which turns the background green if correct input is provided and vibrates with the red background if wrong.
- Implemented a Spi factor calculator to update the spi factor for the IST every second.

CARDS GAME

MAY 2022

- Built a console-based card game using Python that lets the user Play against three computer based opponents.
- Designed it in a way that the person with the highest card value wins for a single pass and the rule of the game is similar to that in the real world.

ARITHMETIC CALCULATOR

JANUARY 2023

- Developed an arithmetic calculator using HTML, CSS, and JavaScript.
- Created a user-friendly and visually appealing interface for the calculator using HTML and CSS.
- Implemented JavaScript to add functionality to the calculator, allowing users to perform basic arithmetic operations.
- Utilized event listeners to detect user input and perform the appropriate arithmetic operation, resulting in accurate results.

- Simulation of the front-end and back-end phase of a C compiler involving the If-Else, While and nested If-Else-While constructs.
- This includes SIX phases of a compiler:
 1. Lexical Analysis- Entering into an Input Table.
 2. Syntactic Analysis- Creation of an Abstract Syntax Tree.
 3. Semantic Analysis- Verifying Type compatability and generating the Intermediate Code.
 4. Intermediate Code Generation - Three Address code generated in Quadruples.
 5. Machine Independent Code Optimization - Constant Folding, Common Sub-Expression Elimination, Dead Code Elimination.
 6. Assembly Code Generation - Final Target Code.

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SYNERGIC ACTIVITIES

- Participated in **Chaturth Charan Cub** training camp held by **The Haryana State Bharat Scout and Guides**.
- Participated in **Marathon'22** hosted by **Sportsfete** - the inter department sports fest organized by NIT Trichy.
- Participated in **Marathon'23** hosted by **Sportsfete** - the inter department sports fest organized by NIT Trichy.