SAKETH RAGIROLLA
Roll Number: 2021092

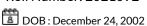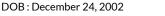DOB : December 24, 2002

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Education

Indraprastha Institute of Information Technology, Delhi
B.Tech (CSE, *Computer Science and Engineering*)[2021–Present]
Indus Universal School, HYDERABAD
Class 12 (CBSE) [2019 – 2020]
Sri Chaitanya School, HYDERABAD
Class 10 (CBSE) [2017– 2018]

Internships/ Independent projects

mHealth Project/Intern
Guide: Sujay Deb
Responsibilities:
- Spearheaded the end-to-end development of a robust Django web application, incorporating essential features such as user authentication, login, signup, and home pages.
- Engineered a Python script to facilitate the seamless conversion of health data from Excel to HL7 format, enhancing the website's ability to efficiently process and integrate diverse health information.
- Pioneered the implementation of critical functionalities, fortifying the platform's security measures and providing users with a reliable and standardized interface for accessing health information.

IIITD CloudLabs Project/Intern
Guide: Sumit J Darak
Responsibilities:
- Spearheaded the advancement of the CloudLabs website, focusing on the refinement and enhancement of the front end. Applied user-centered design principles to optimize usability and elevate the overall user experience.
- Introduced a series of new web pages and features, effectively expanding the website's functionality. This initiative not only increased the platform's capabilities but also addressed and rectified existing bugs, contributing to a smoother and more reliable user interface.

Business Development Intern | Stubborn Factory   **LOR** & **Certificate**
Responsibilities:
- Conducted extensive research to compile valuable data on corporate clients, providing the company with critical insights for strategic decision-making.
- Proactively engaged with clients, delivering compelling pitches that effectively promoted products and services, fostering strong relationships.
- Played a key role in expanding the client base through strategic communication and marketing initiatives, contributing to the overall growth and success of the company.

Technical Skills

Expertise Area
Computer Science and Technology, Problem-solving and coding, Web Development, Communication Skills
Programming Languages
Java, Python, C, C++, HTML, CSS, Processing (Language)
Tools and Technologies
Linux, Github, Git, Vscode, IntelliJ, Django, Arduino, Figma
Technical Electives
Database Management Systems, Advanced Programming, Operating Systems, Data Structures, and Algorithms

Projects

1. **Pollution Prediction**[Data Science]
   [Skills Used: Python, ML, etc]
   Led data preprocessing and hypothesis testing using F-test, followed by SARIMA time series modeling to predict air pollutant levels in Beijing. This initiative contributes to crucial environmental research, aiding in policy development and public health strategies to combat air pollution.

2. **BoredBot[Python/ Django]**
   [Skills Used: Python, Django, API integration]
   Conceived and developed "Bored Bot" using Django, seamlessly integrating the Bored API. This project provides dynamic and budget-friendly activity suggestions through a user-friendly interface, showcasing proficiency in Python, Django, and effective API integration.

3. **Online Retail Store**[DBMS]
   Guide: Dr Vikram Goyal| [Jan 2023 - April 2023]
   [Skills Used: MySQL, Python]
   Designed and implemented the backend system for an online retail store, integrating a robust Database Management System (DBMS) to enhance efficiency and data organization. Developed a sophisticated command-line interface, ensuring seamless interaction with the backend system and facilitating streamlined operations.

4. **TankStars Game**[Java]
   Guide: Ragava Muthiraju |[Oct 2022]
   [Skills Used: Java, OOPS, LibGDX]
   Engineered a captivating 2D tank battle game utilizing Java and the powerful LibGDX library, showcasing advanced features including multiplayer capabilities and dynamic terrain. Implemented intricate game physics and mechanics, showcasing expertise in Java programming to deliver a seamless and engaging gaming experience.

5. **Music with color detection using Arduino Uno**[Prototyping and interactive systems]
   Guide: Anmol Srivastava|[March 2023-April 2023]
   [Skills Used: Arduino Uno, Processing (Language)]
   Prototyped an innovative music system integrating color detection using Arduino Uno and Processing. Developed a dynamic music player that responds to color cues detected by the integrated color sensor, creating a unique and interactive audio-visual experience.