Saketh Ragirolla

saketh21092@iiitd.ac.in | +91 8106371972 | GitHub | Linked In

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Education

Indraprastha Institute of Information Technology Delhi (IIIT-Delhi)
Bachelor of Technology in Computer Science   2021-25
Indus Universal School (CBSE)
Class 11 and 12 in Sciences   2018-20
Sri Chaitanya Olympiad School(CBSE)
Class 7 to 10   2015-18

Technical Skills

Languages	Technologies and tools	Technical Electives
Python, C++, C, Java, HTML, CSS	Django, Linux, Github, Git, Vscode, IntelliJ, Arduino, Figma, etc.	Database Management Systems, Advanced Programming, Operating Systems, Data Structures, and Algorithms, Data Science, Distributed Systems, Information Retrieval, Computer Networks

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Internships/ Independent Projects

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mHealth Project/Intern   **Guide:** Sujay Deb
Developed a robust Django web app with key features like login, signup, and home pages. Engineered a Python script to seamlessly convert health data from Excel to HL7 format, enhancing data processing efficiency. Pioneered critical functionalities for a standardized interface, fortifying the platform's capabilities in processing diverse health information.

IIITD CloudLabs Project/Intern   **Guide:** Sumit J Darak
Led the improvement of the CloudLabs website, making the front end more user-friendly by applying design principles. Added new pages and features, enhancing functionality, fixing bugs, and creating a smoother user interface.

Business Development Intern | Stubborn Factory   **LOR** & **Certificate**
Researched corporate clients for valuable insights, aiding strategic decisions. Expanded client base through effective pitches and communication, contributing to company growth

Major Projects

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.

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.

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.

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.

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.

Minor Projects

Flipzone App [Java] |Guide: Ragava Muthiraju | Oct 2022 | Skills Used: Java, OOPS
Developed a Shopping Application(FLIPZON) without GUI in Java using concepts like Polymorphism, Inheritance, and interfaces

Simple Simulator and Assembler| Guide: Sujay Deb|August 2022| Skills Used: Python
 Developed an assembler and simple simulator using Python, capable of converting assembly code to machine code