



Siddharth Singh Rana

Student

Result-driven technical professional with a strong passion for problem-solving, seeking an engaging position within a reputable IT company. Skilled in Java, C/C++, Python, Javascript, Linux and SQL with a reputation for innovative and resourceful thinking. Proven track record of success in college-level coding competitions, consistently bringing fresh ideas to the table and expanding skills to stay ahead of the curve.

✉ siddharthsinghrana11@gmail.com

📍 Dehradun, India

🌐 [linkedin.com/in/siddharthsinghrana11](https://www.linkedin.com/in/siddharthsinghrana11)

🐙 github.com/NIXBLACK11

📞 8445067401

🌐 siddharth-dev-portfolio.netlify.app/

🐦 twitter.com/NIXBLACK_

EDUCATION

B.Tech CSE

Graphic Era Hill University

09/2021 - 04/2025

Dehradun

XII(ISC)

St.Joseph's College

03/2009 - 03/2021

Nainital

PERSONAL PROJECTS

Telegram based chat bot for bank users

- Empowered with Natural Language Processing (NLP) to facilitate seamless communication.
- Leveraged MongoDB as a back-end to securely store and manage user information, emphasizing data privacy and security.
- Deployed as a Docker container for integration and scalability.
- MongoDB, NLP, Python, Keras, Deep Learning, Docker.**

Research paper on IOT Malware detection

- Leveraged binary file images to train various image classification models, achieving a test accuracy of 95.6% and precision of 85%.
- Imported and implemented pre-trained models using Keras to enhance image classification accuracy.
- Keras, Python.**

Hashtag Finder - API based Instagram Hashtag Finder

- Developed an application that utilizes the Instagram Graph API to gather hashtags from top posts on Instagram.
- Express, ReactJs, NodeJs (MERN Stack).**

ARDUINO robot

- Designed an Arduino robot equipped with infrared and ultrasonic sensors, which can be conveniently controlled through Bluetooth technology.
- Objective C, Machine Learning, Arduino.**

DMBS based Student Management Desktop Application

- Created a desktop application that functions as an information portal for students of an institution, featuring login, update, delete, and register functionality for enhanced user management.
- MySQL, Java Swing, Java.**

NLP(Natural Language Processing) Enabled Chatbot named NIMBLE

- Developed Nimble, a chatbot with a human-like conversational interface.
- Implemented facial recognition technology to access user database and store tasks, while utilizing BERT to accurately respond to questions based on given paragraph.
- Python, MongoDB, Tkinter, MySQL, BERT.**

SKILLS

Git

Github

Mongo DB

MySQL

Bash

Amazon AWS

Bootstrap

HTML/CSS

Arduino

React

Java

Java Swing

C/C++

Python

Linux OS

Web app Security

Keras

Docker

ACHIEVEMENTS

Coding Competition Success

Achieved the top position in the Code-Chaos competition, organized by IEEE, showcasing exceptional coding skills and abilities. Also placed on the podium in multiple coding competitions, showcasing proficiency.

Coding Proficiency

Demonstrated strong technical skills by completing over 200+ coding challenges on [Leetcode](https://leetcode.com/) and 80+ challenges on [Geeks for Geeks](https://www.geeksforgeeks.com/).

IoT Security and Deep Learning Publication

Researched and authored a paper on IoT malware detection leveraging image models like VGG16 and deep learning techniques to accurately classify binary file images. Demonstrated proficiency in IoT security and machine learning.

CERTIFICATES

Git Essential Training: The Basics

Google Cloud Foundations

Data Structures and Algorithms: Deep Dive Using Java

Learning Docker(2018)

Google Cloud Data and Storage Foundations

Secure coding guide for Developers, Analysts and Architects

Learning Google Cloud Security

Introduction to bug bounty hunting and web application hacking

INTERESTS

Swimming

Taekwondo

Football