

SIDDHARTH SINGH RANA

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EDUCATION

Graphic Era Hill University - CGPA: (9.15/10) <i>Bachelor of Technology in Computer Science and Engineering</i>	Dehradun, India Aug. 2021 – May 2025
St. Joseph's College - Percentage: (88/100) <i>12th(Indian School Certificate)</i>	Nainital, India Aug. 2020 – May 2021
St. Joseph's College - Percentage: (90/100) <i>10th(Indian Certificate of Secondary Education)</i>	Nainital, India Aug. 2014 – May 2019

EXPERIENCE

Software Engineering Intern <i>Meta(Facebook), Major League Hacking</i>	September 2023 - December 2023 Remote, New York, NY
<ul style="list-style-type: none">• Attained 100% accuracy by aligning Perl and Python scripts through bash tests and regex corrections.• Created a laser encoder implementation, demonstrating its functionality to users.• Eliminated redundancy in Laser Supported Language dictionaries, ensuring accurate language representation.• Implemented validation slow test to verify language models' availability and alignment.• Fixed key error in LaserEncoderPipeline, ensuring functionality for various languages, including English.	

PROJECTS

The Feedback Loop <i>Chakra UI, React JS, Express, Node JS, MongoDB, Keras, Flask</i>	🔑
<ul style="list-style-type: none">• Implemented Multer for secure video upload & JWT for authentication.• Analyzed video trends & compared audio/visual elements for insights.• Delivered personalized video feedback on strengths & improvement areas.	
Telegram Chat Bot for Bank Users <i>MongoDB, Python, Keras, Docker, PyTorch, Matplotlib, LASER, Google Translate</i>	🔑
<ul style="list-style-type: none">• Enhanced communication efficiency with Natural Language Processing (NLP), supporting multiple languages.• Utilized MongoDB as a secure back-end solution for robust user data management.• Deployed as a Docker container to ensure seamless integration and scalability.	
MERN Stack-based Chat Application <i>MongoDB, React JS, Express, Node JS, WebSocket</i>	🔑
<ul style="list-style-type: none">• Developed a modern and interactive chat application using the MERN stack.• Enabled seamless communication in real-time using websockets, enhancing user experience.• Implemented secure login standards in Node.js to ensure user security.	
Hashtag Finder - API based Instagram Hashtag Finder <i>Express, ReactJs, NodeJs, Axios</i>	🔑
<ul style="list-style-type: none">• Employed the Facebook Graph API to gather hashtags from top posts on Instagram.• Enhanced content discovery and engagement.	
Chrome Extension for Text Summarization using BERT <i>Python, Django, BERT, HTML, CSS, JavaScript</i>	🔑
<ul style="list-style-type: none">• Utilized Google BERT for real-time text summarization, enhancing user productivity.• Integrated as a Chrome extension for easy and accessible text summarization.	
DBMS based Student Management Desktop Application <i>MySQL, Java Swing, Java</i>	🔑
<ul style="list-style-type: none">• Developed a desktop application for educational institutions, serving as an information portal.• Implemented user management and access levels for enhanced data security.• Designed separate login systems for administrators and users to ensure privacy.	

TECHNICAL SKILLS

Languages: Java, Python, Go, SQL, Bash, C/C++, HTML/CSS, JavaScript
Frameworks: React, NodeJS, Flask, Django, Spring Boot, PyTorch, TensorFlow
Databases: MongoDB, MySQL, PostgreSQL, Oracle DB
Tools & Platforms: Git, Github, Microsoft Azure, Amazon AWS, Docker, Nginx
Other Skills: Linux, NLP, CI/CD, DevOps, Web Sockets

PUBLICATIONS

- Deep Learning-Based IoT Malware Detection Using CNN and Transfer Learning: A Comparative Study**

Led IoT malware research using image models like VGG16, achieving 95.6% accuracy and 85% precision. Implemented Keras pre-trained models for enhanced image classification. Proficient in IoT security, deep learning, Keras, and Python.
- Decoding the Textual Symphony: A Comparative Study of RNN, LSTM, and GRU Architectures for Sequential Text**

Conducted in-depth research comparing RNN, LSTM, and GRU architectures for sequential text analysis, showcasing expertise in language modeling and sequential data processing.

ACHIEVEMENTS

- Coding Competition Success**

Achieved the top position in the Code-Chaos competition, organized by IEEE, showcasing exceptional coding skills and abilities.
- Coding Proficiency**

Demonstrated strong technical skills by completing over 350+ coding challenges on Leetcode and 80+ challenges on GeeksForGeeks.

CERTIFICATES

- Git Essential Training: The Basics
 - Google Cloud Foundations
 - Machine Learning, Data Science and Deep Learning with Python
 - Learning Docker (2018)
 - Google Cloud Data and Storage Foundations
 - Learning Google Cloud Security
 - Secure coding guide for Developers, Analysts and Architects
 - Data Structures and Algorithms: Deep Dive Using Java
 - Introduction to bug bounty hunting and web application hacking

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