SIDDHARTH SINGH RANA

Bringing 3 months of hands-on experience with Meta, coupled with a solid foundation in computer science. Eager to leverage this practical experience and academic knowledge to excel as a Software Engineer.

✉ siddharthsinghrana11   ○ NIXBLACK11   </> NIXBLACK   ⊕ portfolio   in siddharthsinghrana11   % Certificates

EDUCATION

Graphic Era Hill University - CGPA: (9.18/10)   Dehradun, India
Bachelor of Technology in Computer Science and Engineering   *Aug. 2021 – May 2025*

SOFTWARE ENGINEERING EXPERIENCE

1. Meta (Facebook), Major League Hacking   Remote, New York, NY
Software Engineering Intern %   *September 2023 - December 2023*
- Contributed to Meta's open-source project Laser and Sacremoses, utilized by numerous companies.
- Rectified issues within language lists, enhancing user accessibility and comprehension.
- Attained full parity between Perl and Python scripts in the latest Sacremoses release(0.1.0).
- Conducted user demonstrations showcasing the functionalities of the Laser project.

PROJECTS

1. The Feedback Loop | *Chakra UI, React JS, Express, Node JS, MongoDB, Keras, Flask*   ○
- Implemented Multer for secure video upload & JWT for authentication.
- Utilized ML to analyze video trends and compare audio/visual elements for content insights.
- Delivered personalized video feedback on strengths & improvement areas.

2. Telegram Chat Bot for Bank Users | *MongoDB, Python, Keras, Docker, PyTorch, Matplotlib, LASER, Google Translate* ○
- 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.

3. Go Link Tree | *MongoDB, Golang, React JS, Chakra UI*   ○
- Built high-performance Go backend with JWT for secure, faster login compared to Node.js.
- Implemented user-friendly link management system for easy storage and retrieval.
- Developed streamlined UI for efficient access to stored links, improving user experience.

4. Chrome Extension for Text Summarization using BERT | *Python, Django, BERT, HTML, CSS, JavaScript*   ○
- Utilized Google BERT for real-time text summarization, enhancing user productivity.
- Integrated as a Chrome extension for easy and accessible text summarization.

5. DBMS based Student Management Desktop Application | *MySQL, Java Swing, Java*   ○
- 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.

SKILLS

Languages: Java, Python, Golang, SQL, Bash, C/C++, HTML/CSS, JavaScript, Typescript
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

PUBLICATION

1. 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. Im- plemented Keras pre-trained models for enhanced image classification. Proficient in IoT security, deep learning, Keras, and Python.