Abhimanyu Singh Baghel

Roll No.: 22CSM2R03
M.Tech.
Computer Science And Information Security
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in ABHIMANYU SINGH BAGHEL

EDUCATION

- **National Institute of Technology, Warangal (Telangana)** *2022-2024*
  M.Tech. in Computer Science and Information Security — CGPA: **8.62**
- **University Institute Of Technology, RGPV, Bhopal (M.P.)** *2018-2022*
  B.Tech In Computer Science and Engineering — CGPA: **8.15**
- **Christ Jyoti Senior Secondary School, Satna (M.P.)** *2017-2018*
  Central Board of Secondary Education — Percentage: **89%**

EXPERIENCE

- **CISCO** *Feb. 2021 - Apr.2021*
  *Internship On Packet Tracer and **Cyber Security*** — Bhopal
  – Learned about ways in which networks are vulnerable to attacks.
  – Learned to use various technologies like **packet tracer to simulate attacks** and making a network secure.
- **Defence Research and Development Organisation(DRDO)** *May.2023 - Curr.*
  Part-Time Programmer — Warangal
  – Implementation of **Quasi Polynomial Algorithm** for solving the Discrete Logarithm Problem.
  – Coordinated with senior team members for collecting data for pre-processing using **parallel computing**.
  – Learned the basics of **cryptography** and also explored the region of Mathematics required for implementation.

PERSONAL PROJECTS

- **Client Server Architecture for Railways** *Jan. 2023 - May 2023*
  *Created a **Client Server Architecture** for secure communication between Trains and Station Master.*
  – Tools & technologies used: JAVA, Intellij.
  – This model helps us in communication between trains in order to prevent accidents.
  – This system is further secured with the help of Cryptographic primitives provided in JAVA.
- **Fake face detection using Deep Learning** *Jan. 2023 - May 2023*
  *Created a hybrid **Deep learning model** to detect fake faces generated by **GAN**.*
  – Tools & technologies used: Python, Google Colab.
  – It applies the idea of **Contrastive loss** and **Fine tuned transformer**.
  – The model first removes the GAN fingerprint of the model to detect fake images with higher accuracy.
- **Art NFT Marketplace** *Sep. 2022 - Dec. 2022*
  *Created a **Decentralized Application** where user can buy and sell their Art **NFTs**.*
  – Tools & technologies used: Spring Boot , Angular, Ganache, DBeaver, Remix.
  – Worked in backend to write the **smart contract** for the application.
  – Helped in building the **REST API** using **spring boot** for creating and listing NFTs.

TECHNICAL SKILLS AND INTERESTS

Languages: JAVA(**Data Structures & Algorithms, Object Oriented Programming**), C, C++, Python, HTML, Solidity
Developer Tools: Intellij, Colab, Net Beans, Office, VS Code, PyCharm
Frameworks: Spring Core, Spring Boot, Hibernate, Bootstrap
Databases: MySQL
Soft Skills:Adaptability, Communication, Critical Thinking, Time Management, Team Player
Areas of Interest: Operating System, Database Systems, Computer Architecture, Blockchain

POSITIONS OF RESPONSIBILITY

- **Head Boy,** Christ Jyoti Senior Secondary School *Apr. 2017- Apr. 2018*
- **Branch Representative,** Computer Science & Engineering, NIT Warangal *Aug. 2023-Curr.*

HOBBIES & INTERESTS

- **Chess**
- **Travelling**
- **Astronomy**