

# Abhik Goswami

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## EDUCATION

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<b>Vellore Institute of Technology, Bhopal</b> , BTech in Computer Science and Engineering	2022-Ongoing
• CGPA: 7.91/10	
<b>Ramakrishna Mission Vidyalaya, Vivek Nagar, Tripura</b> , 12th standard	June 2022
• Percentage: 84%	
<b>Ramakrishna Mission Vidyalaya, Vivek Nagar, Tripura</b> , 10th standard	July 2020
• Percentage: 84%	

## TECHNICAL SKILLS

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- **Programming Languages, Frameworks, Databases:** C, C++, Java, Streamlit, MySQL, SQL
  - **Development:** HTML, CSS, JavaScript, Android Development, Kotlin, XML
  - **Developer tools and Software:** Android Studio, Git, GitHub, Firebase, AWS, Microsoft Office

## PROJECTS

### Real-time CLI-based Chatting Application

- Technologies: C, Socket Programming, TCP/IP Protocols, Network Security
- Developed a client-server architecture: a command-line interface for bidirectional text messaging and a backend system handling real-time data relay between concurrent users.
- The application is engineered to overcome low-level networking challenges like secure data transmission, buffer overflow vulnerabilities, and latency in real-time communication.

### WeatherSense - A Real-Time weather Monitoring System

- Technologies: C, libcurl, cJSON, REST APIs, HTTP, GCC
- Developed a robust backend application that autonomously polls external APIs (OpenWeatherMap) to retrieve, parse, and analyze live environmental data, including temperature, humidity, and atmospheric conditions.
- The system is engineered to demonstrate low-level network programming and manual memory management, designed to operate as a lightweight, continuous daemon process with minimal resource overhead and zero dependencies on heavy frameworks.

### Inside-Out - Ethical Exploitation and Vulnerability Assessment

- Technologies: Kali Linux, Metasploit Framework, Nmap, Wireshark, VirtualBox, TCP/IP
- Executed a simulated internal penetration test within a controlled host-only network, utilizing active reconnaissance and exploit modules to gain reverse Meterpreter shell access via MySQL UDF injection and vsftpd backdoors
- The project is meant to identify and mitigate critical security blind spots such as misconfigured network services, weak authentication protocols, and unpatched legacy software vulnerabilities often overlooked in internal infrastructure

## ACHIEVEMENTS

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- Hacker Rank 5 Star in C++ and Problem Solving. [Profile Link](#)
  - Solved 600+ Questions on GFG. [Profile Link](#)
  - 150+ Questions on Leet code. [Profile Link](#)
  - Awarded Reliance Foundation UG Scholarship 2023 (INR 2 Lakhs).

## CERTIFICATIONS

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- Bits & Bytes of Computer Networking | Coursera
  - IBM Cybersecurity Analyst | IBM
  - AWS Cloud Practitioner Essentials | AWS Academy

**LANGUAGES:** English(Proficient) | Hindi(proficient) | Bengali(Native)