

Abhik Goswami

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EDUCATION

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

TECHNICAL SKILLS

- **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

- 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

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

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