

Raghava Gatadi

4th Year Undergraduate
Computer Science and Engineering
Github — LinkedIn — TryHackMe (top-7%)

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Myself, Raghava Gatadi, a cybersecurity professional with expertise in **incident detection** and **response**, reinforced by the **Google Cybersecurity Certificate**. I possess a solid understanding of **Governance, Risk, and Compliance (GRC)**, along with hands-on experience in **ethical hacking**, **web security**, **firewalls**, **networks**, and **cryptography**, enabling me to effectively protect systems and data from diverse threats.

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	B.Tech	Indian Institute of Information Technology, Dharwad	8.23/10
2021	XII	Nano Junior College, Hyderabad	98.6%

Skills

- **Programming Languages:** GO Lang, Python, C, C++, Java, Latex
- **Security:**
 - **Ethical Hacking:** scanning, exploiting, post-exploitation, payload writing in python, windows exploitation, msfvenom, metasploitable exploitation, msfconsole, nmap, nslookup, etc.
 - **Web-Testing:** BurpSuite, HTML injection, Command Injection, SQL injection, Bruteforcing, cross-site Site (XSS)
 - Incident response, security frameworks and controls, security hardening, Linux command line, SIEM tools
 - Knowledge in Networking, Cryptography, Firewalls, Incident Response
- **Web-Development:** HTML, CSS, Tailwind-CSS, JavaScript, Django, NodeJs, ExpressJs, SQL, MongoDB.
- **Tools and Frameworks:** SPLUNK, HIPAA, NIST CSF, FedRAMP, PCI DSS, NIST 800-39
- **Operating Systems:** Windows, MacOS, Linux

Key Projects

- **AES in Socket Programming - *Github Repository***
 - implemented Advanced Encryption Standard (AES) encryption and decryption in socket programming.
 - The key mechanism allows the sender to attach a key with each message using a delimiter '~'. If no delimiter is found, the previous key is used.
 - Supports all variants of AES (128, 192, 256).
- **Password Manager - *Github Repository***
 - Developed a secure and efficient command-line password manager using Python. The password manager utilizes MySQL to securely store passwords.
 - Key features include a user-friendly command-line Line Interface, Master Password Validation, Password Management, Clipboard Integration, and Random Password Generation.
 - Ensures confidentiality by not displaying passwords during input and directly copying retrieved passwords to the clipboard.
- **Vulnerability Assessment and Exploitation of Metasploitable - *Report***
 - **Tools:** Nmap, Nessus, Metasploit, Kali Linux, Github scripts
 - **Objective:** Conducted vulnerability assessment on the Metasploitable virtual machine using Nmap and Nessus, followed by exploitation using Metasploit.
 - **Key exploits:** FTP, SSH, Telnet directly
- **Network Scanner - *Github Repository*** : The Python script accepts the user's network IP address as input and provides information about connected devices, including their MAC addresses and open ports.
- **Quantum Club IIIT-Dharwad Website - *Project Link***
 - Developed the website for Quantum Computing Club IIIT Dharwad as a Full-Stack developer.
 - Contributed to creating the Blog page for Quantum Computing Club IIIT Dharwad.
 - Languages: HTML, Tailwind-CSS, CSS, Django.

Research Projects

- **PUF Based Hardware Security Research** Aug 2024 - Present
 - Researching PUF (Physically Unclonable Function) models for hardware security, with a focus on reviewing key papers.
 - Planning to conduct cryptanalysis on several PUF models to identify vulnerabilities and enhance security.
 - Working towards developing a unified model that can replace two or more existing PUF models to improve efficiency and security.

- **Fake News Detection** - *Github Repository* Jan 2024 - Apr 2024
 - Conducted in-depth research on existing fake news detection methods by reviewing multiple papers.
 - Identified potential improvements and implemented Deep Learning and NLP models like TF-IDF, BERT, Word2Vec, and Word Embedding.
 - Achieved significant accuracy improvements on Truthseeker dataset compared to its previous papers.

Experience

- **New York University Secure Systems Lab**, Intern/Open Source Contribution May 2024 - Aug 2024
 - Project: Gittuf - Building a New Security Layer for GitHub
 - Contributed issues: git command compatibility(Experimental), windows display test(main)
 - Collaborated with cybersecurity professionals, actively participated in team discussions and shared innovative ideas to enhance project results.
 - **Mastercard Cybersecurity** virtual experience program on Forage - Link December 2023
 - **JP Morgan Chase Co Cybersecurity** virtual experience program on Forage - Link February 2024
 - Analyzed a large dataset of fraud in financial payment services.
 - Learned application security fundamentals and applied them.
 - Built an email classifier to distinguish between spam and ham.

Relevant Courses

Data Structure and Algorithms Design and Analysis of Algorithms Operating Systems Cryptography Networking and Security, Cisco → Ethical Hacking, Udemy, A-Z academy Networking, Coursera, Google →	Calculus Linear algebra and Differential Equations Computer Networks Quantum Computing Cybersecurity Specialization by Google, Coursera → Web-Security and Bug Bounty, Udemy, A-Z Academy Governance, Risk, and Compliance(GRC)
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