BHARATHI MATHIYAZHAGAN

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PROFILE

An enthusiastic and dedicated programmer with a strong background in cybersecurity and software development. Currently pursuing a Bachelor of Science in Computer Science with a focus on cybersecurity, I am skilled in programming languages such as Python, C++, Java, and Bash scripting. With expertise in malware analysis, network security, and vulnerability detection, I have developed tools to enhance security and contribute to safer digital environments. Passionate about continuous learning, I actively engage in security-related projects and capture-the-flag (CTF) challenges to sharpen my problem-solving skills. I am eager to apply my knowledge in a challenging cybersecurity role where I can contribute to impactful solutions and protect digital assets from evolving threats.

EDUCATION:

Manakula Vinayagar Institute of Technology, Puducherry, India
Bachelor of Technology (B.Tech) in Computer Science and Engineering (Cybersecurity Specialization)
Duration: 2023 – Present

- Focused on cybersecurity, ethical hacking, malware analysis, and network security.
- Gained proficiency in programming, system vulnerabilities, cryptography, and secure application development.
- Hands-on experience with Linux tools, cybersecurity labs, and real-world security projects.

TECHNICAL SKILLS:

- **Programming Languages**:

  - **Proficient**: Python, C++, Java, Bash scripting
  - **Familiar**: Assembly, C, PHP, SQL, QT framework

- **Cybersecurity Skills**:

  - Malware Analysis
  - Vulnerability Detection and Exploitation
  - Basic Cryptography
  - Incident Response and Handling
  - Network Security Fundamentals
  - System Vulnerabilities
  - Linux Tools for Security and Forensics
  - Basic Understanding of Firewalls and IDS/IPS

- **Development Tools**:

  - NVIM, Visual Studio Code
  - Git, GitHub for Version Control
  - Burp Suite, Wireshark, Metasploit (for security analysis and penetration testing)
  - Docker for Containerization

- **Operating Systems**:

  - **Proficient**: Linux (Ubuntu, Kali, etc.), Windows
  - **Familiar**: macOS

- **Other Skills**:

  - Tool Development and Automation
  - Debugging and Code Optimization
  - System Security Audits
  - Security Patch Management
  - Secure Software Development Practices

SOFT SKILLS:

- **Analytical Thinking** – Capable of analyzing complex problems, especially in malware and vulnerability analysis.

- **Problem Solving** – Strong ability to troubleshoot and resolve software bugs, system vulnerabilities, and security issues.

- **Attention to Detail** – Careful in code review, threat detection, and analyzing system behaviors.

- **Team Collaboration** – Works effectively within teams, especially during Capture The Flag (CTF) competitions and cybersecurity projects.

- **Communication Skills** – Able to explain technical concepts clearly to both technical and non-technical audiences.Bottom of Form

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BOOK& LEARNING

- **Black Hat Python** – Python programming for offensive cybersecurity techniques
- **The Linux Command Line** – Mastering shell basics and scripting in Linux environments
- **Mastering Malware Analysis** – Practical techniques for detecting and analyzing malicious software
- **Modern C++ for Absolute Beginners** by Slobodan Dmitrovic – Foundation in C++ programming
- **Low-Level Programming: C, Assembly, and Program Execution on Intel** – Understanding system internals and low-level programming

INTERESTS

- **Capture The Flag (CTF) Challenges**

- **Cybersecurity Tools and Practices**

- **Malware Analysis and Reverse Engineering**

- **Ethical Hacking and Penetration Testing**

- **Programming Projects and Scripting Automation**

LANGUAGES

- **English** – Proficient

- **Tamil** – Native

- **Telugu** – Intermediate

- **Hindi** – Basic

Certifications & Training

- **CompTIA Network+** – Foundational networking concepts and troubleshooting

- **Google Cybersecurity Certificate (Coursera)** – Security principles, threat analysis, and response

- **GDSC Malware Analysis Workshop** – Hands-on malware analysis and investigation

- **Linux Administration for Beginners** – Basic Linux commands, system setup, and user management (Udemy)

CONTACT

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- **GitHub:** https://github.com/tech-bharathi