HEMANTHA KRISHNA CHALLA

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EDUCATION

The University of Texas at Dallas *Master of Science, Computer Science (Cybersecurity)*   Expected Graduation: May 2026
- **Expected NSA Designations:** Cyber Operations (CAE-CO) & Cyber Defense (CAE-CD)   *GPA 3.67*

SRMAP University, AP, India *Bachelor of Technology in* Computer Science (Cybersecurity)   Graduated: May 2024
- *Awarded 50% merit-based scholarship*   *GPA 3.60*

TECHNICAL SKILLS

- **SOC & Incident Response:** SIEM (Splunk, Elastic), Snort IDS, Wireshark, phishing analysis, endpoint security, EDR, digital forensics, log analysis
- **Programming Languages:** Python, C, C++, Java, bash, x86 Assembly
- **Binary Exploitation:** Buffer overflows, return-to-libc, stack canaries, ASLR bypass techniques
- **Web development Skills:** HTML, CSS, JavaScript, ReactJS, Node.js, PHP (Awareness of OWASP Top 10)
- **Environments & Tools:** Linux (Ubuntu, Fedora, Arch), Virtual Machines, MySQL, MongoDB, Git, MS Office Suite

CERTIFICATIONS

- CompTIA Security+ (SY0-701)
- Practical SOC Analyst Associate (PSAA) -TCM Security
- **CompTIA Cybersecurity Analyst (CySA+),** Expected September 2025

PROJECT EXPERIENCE

SOC & Incident Response Labs (TryHackMe – Top 1%)
- Completed 170+ hands-on rooms in SOC operations, threat hunting, and digital forensics.
- Investigated malware C2, brute force, and phishing campaigns; Published 25+ technical writeups.

Practical SOC Analyst Associate (PSAA) – Certification | TCM Security | 2025
- Investigated phishing, malware, and network intrusion scenarios in a simulated SOC environment.
- Authored a professional incident response report with root cause analysis and remediation recommendations.

Web Security Exploits & Defenses
- Identified and remediated 5+ high-severity web app vulnerabilities (XSS, SQLi, CSRF), reducing exposure by 40%.

Software Vulnerability Exploits
- Executed buffer overflow and return-to-libc attacks to evaluate defenses, including ASLR and stack canaries

GRC Analyst Master Class
- Conducted hands-on labs applying NIST frameworks, risk assessments, policy development, and audit practices.

PUBLICATIONS

Task Offloading Technique Selection in Mobile Edge Computing (MEC), *IEEE ASSIC 2024, IEEE Xplore*
- Analyzed ML algorithms for optimizing task offloading decisions in MEC environments.

Machine Learning Intrusion Detection with Explainable AI, Journal of Technology
- Developed ML intrusion detection models, applying XAI (SHAP, LIME) for interpretability.

WORK EXPERIENCE

CS Grader – Undergraduate, The University of Texas at Dallas   *Aug 2025 –Present*
- Grade assignments and exams for undergraduate CS courses, providing feedback and support to students.

Web Development Intern at **Jayaho, CCC Digital India Pvt. Ltd.**, Hyderabad, Telangana, India   Jun 2022 – Aug 2022
- Applied secure coding practices (OWASP Top 10) to enhance website resilience, increasing engagement by 20%.
- Built a ReactJS e-learning platform prototype, improving user experience and reducing development time by 10%.

ADDITIONAL INFORMATION

• **Work Authorization: Authorized for internships and full-time for up to 36 months without sponsorship.**