

Hemantha Krishna Challa

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EDUCATION

The University of Texas at Dallas

Expected Graduation: May 2026

Master of Science, Computer Science with Cybersecurity track

GPA 3.67

- NSA CAE Designations (Expected): Graduate Level Designation in Cyber Operations (CAE-CyberOps); Graduate Certificate in Cyber Defense (CAE-CDE)

SRMAP University, AP, India

Graduated: May 2024

Bachelor of Technology, Computer Science, specializing in Cybersecurity

GPA 3.60

- Awarded 50% merit-based scholarship for academic achievement

TECHNICAL SKILLS

- Cybersecurity Skills: Security Operations, Phishing Analysis, Network Security Monitoring, Endpoint Detection & Response (EDR), Threat Intelligence, Log Analysis, Digital Forensics, Incident Response, SIEM (Splunk, Elastic), IDS (Snort), Packet Analysis (Wireshark), NIST Frameworks, Risk Management
- Programming Languages: Python, C, C++, Java, bash
- 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+ \(SY0-701\)](#)
- **CompTIA Cybersecurity Analyst (CySA+)**, In Progress
- [Practical SOC Analyst Associate \(PSAA\)](#)

PROJECT EXPERIENCE

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.

TryHackMe(Top 1%)/HackTheBox

- Completed 160+ labs focused on SOC analysis, forensics, and exploit development.
- Published 20+ technical writeups on Medium, building a community knowledge base and demonstrating applied cyber skills.

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 & evaluated ML models for network intrusion detection; applied XAI (SHAP, LIME) for interpretability

PROFESSIONAL EXPERIENCE

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

- Soft Skills: Analytical Thinking, Problem-solving, Communication, Teamwork, Leadership
- Languages: English, Telugu, Hindi, Japanese (basic)
- Work Authorization: F-1 VISA (CPT/OPT eligible) - Authorized for internships and full-time up to 36 months