

VENKAT RAMANA REDDY MAREDDY

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OBJECTIVE

Seeking full time opportunities starting from May 2021 in Cyber Security.

EDUCATION

University of Southern California, Los Angeles, CA

Expected Graduation – May 2021

Master of Science in Cyber Security Engineering

GPA: 3.6/4.0

Coursework: Security Systems, Web Application Security, Applied Cryptography, Assurance in Cyber space, Innovation for Defense Applications, Security and Privacy in Informatics, Foundation and Policy for Information Security.

Sreenidhi Institute of Science and Technology, Hyderabad, India

June 2015 – May 2019

Bachelor of Technology in Electronics and Communication Engineering

GPA: 9.54/10.0

SKILLS

- **Programming & Web Development:** C, Java, Python, HTML, CSS, JavaScript, PHP, Node JS, React JS, MySQL.
- **Certification:** CompTIA Security+ (on going), Cisco Cyber Security Essentials, National Cyber Security & Communication integration Center ICS Cyber Security, Udemy The Complete 2020 Web development Bootcamp.

ACADEMIC PROJECTS

- **Web Application Security Assessment, USC** *Burp Suite, Nmap, Metasploit, Python, Splunk* Nov 2020
 - Conducted vulnerability assessment against a web domain (itp425.org) to detect OWASP Top-10 vulnerabilities.
 - Coded scripts using Python and reverse engineered frameworks using HTML5, PHP and Java Script.
 - Catalogued critical vulnerabilities discovered through enumeration and exploitation tools.
 - Reported ten most crucial vulnerabilities and necessary mitigations using Splunk.
- **Security Assurance in Industrial Control Systems** *Java ADT, Microsoft Threat Modelling Tool* Nov 2020
 - Presented the case study report about the security issues in critical infrastructure to a class of 40 students.
 - Modelled the threats and addressed key issues with in TCB and represented Trusted Boundaries.
 - Enumerated information about ICS by completing the courses 100W, 210W (01-10) offered by CISA.
- **Intuitive Security Test Framework for MCTSSA** May 2020
 - Submitted POC and proposed a service model that can make testing time better by 25%.
 - Conducted 72 interviews with beneficiaries in both military and commercial domains to evaluate hypothesis.
 - Adopted lean start up methodology to better understand problem statement and made development quick.
 - Addressed issues like key activities, resources, architecture by updating the Mission Model Canvas (MMC) every week.
- **Policy Recommendation for Health Center** Dec 2019
 - Recommended a RBAC model by identifying hierarchy within the organization to access confidential information.
 - Designed access control matrix and additional security policy recommendations in compliance with HIPAA guidelines.
- **Design and Simulation of LAN for SNIST** *Cisco Packet Tracer* Oct 2018
 - Reduced the complexity of the existing network by implementing VLANs and wireless networks.
 - Implemented application layer protocols and observed the packet transfer during simulation.

WORK EXPERIENCE

- **USC Viterbi School of Engineering | Los Angeles, CA** *Grader CSCI 350* Jan 2020 - Present
 - Designed exam, rubric for Introduction to Operating Systems and graded the exams for the class of 170 students.
 - Held office hours to clarify doubts under Professor Tatyana Ryutov.
- **Bharat Dynamics Ltd. | Hyderabad, India** *Research Intern* May 2018 – Jul 2018
 - Developed the prototype of Data Acquisition System for Temperature and Humidity Measurement.
 - Integrated it with PCF8583 to collect the readings at a certain time and have record of changes.
 - Worked as a team of four members and tested it successfully.

PUBLICATION - 'Multistage Decimator with Memory Save Approach for GSM Applications', IEEE 8th International Conference on Information, Communication and Embedded Systems, 2019.

ACHIEVEMENT - Won silver medal by presenting a prototype of Agricultural Robot in the International Innovation Fair, 2017 organized by the International Federation of Inventors Association.

LEADERSHIP - Worked as a mentor for The Robotics Club, SNIST (Aug 2016 – Mar 2017). Provided guidance and support for ten students to successfully complete the induction program.