Sai Ram Kunapareddy

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EDUCATION

Johns Hopkins University, Baltimore, USA August 2021 - December 2022
MS, Security Informatics

VNR VJIET, Hyderabad, India August 2016 - September 2020
Bachelor of Technology in Computer Science and Engineering

CERTIFICATION

AWS Certified Cloud Practitioner October 2020 - October 2023
AWS

EXPERIENCE

Graduate Assistant, Baltimore, USA August 2021 – Present
Johns Hopkins University *Java*
- Courses: Object Oriented Software Engineering, Software Testing & Debugging
- Assisted with doubt clarification, graded weekly assignments and advised teams on final project

Smart Interviews, Hyderabad, India December 2020 - July 2021
Software Development Engineer *Angular, NodeJS, Bootstrap*
- Spearheaded the development of proprietary Code Editor
- Conceptualized database design & created a well-defined software implementation design of new web application
- Developed features and implemented workflow automation services
- Collaborated in design discussions and code reviews to develop customer-requested features
- Detected potential weakness in user authentication and crafted creative solutions to eliminate them
- Delivered high quality solutions that led to 30% growth

Alltronics Technologies Pvt Ltd, Hyderabad, India August 2018 - September 2018
Software & Security Engineer Intern *PHP, HTML, CSS*
- Led design, planning and execution of RESTful API for Customer-Relationship Management product
- Built a user authentication service and performed testing to identify and fix security-related bugs
- Developed web application for registering details of complaints raised
- Prepared and updated detailed plan to track overall history of complaints across multiple product lines issued associated with a unique ticket id (generated automatically). Ensures real time status update reports to staff

PROJECTS

Attacking Critical Infrastructure Systems August 2021 - November 2021
- Remotely investigated & documented both wireline and wireless network topology using Shodan
- Analyzed network traffic with a machine learning tool to determine the CPU loads of a SCADA device

Capture the Flag | *C/C++, Python* August 2021 - December 2021
- Developed an vulnerable E-Voting web application
- Performed red teaming exercises, discovered, mitigated and documented vulnerabilities like Buffer overflow, Shellshock, XSS, SQL Injection, SYN flooding, TCP Session Hijacking, Local DNS & Remote DNS

Attack-Defense Simulator | *JavaScript* September 2021
- Built a attacker vs defender simulation application
- Developed a hacker's cyber-attack strategy to identify attacks & implemented defense-in-depth solution to mitigate threats

TECHNICAL SKILLS

Development Technologies: C/C++, Python, Java, JavaScript, HTML, CSS, Docker, AWS, Git, SQL, PHP, MySQL
Security Tools & Concepts: BurpSuite, Wireshark, Metasploit, Nmap, OWASP Top 10, Threat Modeling, Secure Code Review, Password Cracking, Risk Assessment
Operating Systems: Windows, Linux