Rushil Choksi

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SUMMARY

Skilled Cyber Security Engineering graduate adept in threat intelligence analysis and network security, with Python and RESTful APIs expertise. Demonstrated ability to enhance security, mitigate risks, and optimize systems with a DevSecOps approach.

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA   Los Angeles, CA
Master's of Science in Cyber Security Engineering   Expected May 2025
Relevant Coursework: Security Systems, Foundations and Policy for Information Security

GANPAT UNIVERSITY   Ahmedabad, IN
Bachelor of Technology in Computer Science and Engineering (Minors in Cyber Security)   Jul 2019 – May 2023
Cumulative GPA: 9.26/10.0 (Gold Medalist)

WORK EXPERIENCE

KANODA ENERGY SYSTEMS PVT. LTD.   Ahmedabad, IN
Security Architect Intern   Jan 2023 - Apr 2023

- Devised and implemented a comprehensive security architecture for enterprise-level applications, effectively reducing the number of security incidents by 30% and ensuring seamless compliance with industry-standard security frameworks.
- Spearheaded the integration of zero trust architecture into an internal application, resulting in a remarkable 50% reduction in unauthorized access attempts and bolstering overall network security.
- Conducted meticulous security assessments unearthing critical vulnerabilities and effectively mitigating potential risks within the organization's infrastructure and applications, leading to a substantial 40% improvement in the overall security posture.

TÉCRAVE   Ahmedabad, IN
DevSecOps Engineer Intern   Apr 2022 – Sep 2022

- Orchestrated the development of automation software in Selenium & Python, resulting in the automated renewal of insurance policies and a remarkable revenue loss reduction of up to $62,000 / annum.
- Led the design and implementation of a Django-based dashboard, resulting in a 40% improvement in analyzing solar energy consumption data and performing ETL operations using advanced data processing algorithms.
- Designed and built an innovative internal URL shortener with advanced usage tracking capabilities, leading to a 60% increase in click-through rates for marketing campaigns.

UNIVERSITY PROJECTS

SECURE AUTOMATED SMART DATA COLLECTION SYSTEM   Feb 2023 - Apr 2023

- Engineered a Python application to seamlessly extract and process data from diverse sources such as images, documents, and web pages, yielding an impressive 50% reduction in manual data processing time.
- Fortified the application with advanced security measures, encompassing in-transit data encryption, granular log monitoring, and RSA2048-bit data encryption for comprehensive data protection.

RECURRENT NEURAL-NETWORK BASED PASSWORD GENERATOR   Sep 2022 - Nov 2022

- Engineered a cutting-edge recurrent neural network-based password generator, producing secure passwords with an average entropy of 72.56, surpassing industry standards by 40%.

ADDITIONAL

Technical Skills: Incident Response Management, Security Monitoring, Threat Intelligence Analysis, Penetration Testing, Network Security, Security Operations, Cryptography, Orchestration, CI/CD, DevSecOps
Soft Skills: Effective Communication, Solution-Oriented Problem-Solving, Strategic Critical Thinking, Adaptability, Agility and Eye for Detail
Languages & Tools: Guardium, QRadar, Metasploit, Burp Suite, Nmap, Wireshark, Selenium, Pandas, Scikit, Git
Certifications: Fortinet Network Security Associate (III), U.S. Department of Homeland Security: Mapping Defense-in-Depth, AWS: Cloud Security, IBM: Cybersecurity, CS50: Introduction to AI with Python, CS50: Introduction to Computer Science
Awards: Secured Nike - Information Disclosure Vulnerability; Awarded with University Academic Excellence award for achieving rank in top 3 four times consecutively; Secured first rank in my bachelor's degree, earning the prestigious gold medal.