# Sma Das

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## EDUCATION

**Rochester Institute of Technology**                                                                         January 2020 – December 2023
*Bachelor of Science* Cybersecurity                                                                                              GPA: 3.9/4.0
Dean's List: Top 3% of Students                                                                                                    2020 – 2023
Outstanding Undergraduate Scholar Award                                                                                                2023

## WORK EXPERIENCE

**Google Cybersecurity Clinic**, New York, NY – *Security Engineer*                                          Aug 2023 - Current
- Performed security testing including penetration testing and social engineering to uncover vulnerabilities.
- Develop and maintain secure coding standards and practices for the team, ensuring compliance with industry best practices and Google's security policies.
- Spearheaded the adoption of NIST-based security implementation to protect employee information and financial data

**IBM**, New York, NY – *Cybersecurity Engineer Intern*                                                       May 2023 - Aug 2023
- Spearheaded collaborative efforts to revolutionize Python Federated ML models, ensuring secure and efficient training and inference on distributed data sources while safeguarding data privacy
- Innovated and contributed to the implementation of novel federated learning algorithms, resulting in a remarkable 78% improvement in performance and a remarkable 67% increase in efficiency for the models
- Responsible for the aggregation and cleansing of over 1,000,000 data points for use in IBM's Federated ML program designed to optimize and promote data privacy
- Python, Federated machine learning, PyTorch, Skorch, Java, TensorFlow, IBM Cloud

**UniTech**, Dubai, UAE – *Cloud Security Engineer Intern*                                                    May 2022 - Dec 2022
- Automated 40+ AWS compliance checks and security monitoring tasks using Python SDK and AWS CLI scripts
- Communicated revamps in user permissions and access control for AWS using AWS IAM, enforcing security measures and limiting access to authorized personnel; reducing fraudulent accounts by 16%
- Pioneered the integration of vital AWS security services, such as AWS CloudTrail and Amazon GuardDuty, into applications, providing real-time monitoring and logging of critical security events; increasing coverage by 33%
- Performed weekly vulnerability assessments of cloud infrastructure and 12 services deployed on AWS and GCP

**TryHackMe**, London, UK – *Vulnerability Researcher & Penetration Tester Intern*                            May 2021 - Dec 2021
- Performed reconnaissance on 50+ targets to create asset inventories and attack surface maps
- Executed 30+ penetration tests identifying over 100 vulnerabilities with high/critical severity
- Developed 10+ scripts and tools in Python to automate discovery and exploitation
- Led a team of developers in creating an internal vulnerability-reporting web application using Go, Java, and Python resulting in a 187% increase in reported bugs, security issues, and vulnerabilities
- Curated educational cybersecurity content consumed by over 1,000,000 platform members

## ACTIVITIES & PROJECTS

**CPTC: Collegiate Penetration Testing Competition**                                                         Aug 2023 - Current
- Intense cybersecurity challenge that simulates real-world computer infrastructure
- Achieved 2nd place out of 70 teams, showcasing exceptional leadership, technical prowess, and teamwork
- Developed and executed innovative penetration testing strategies, including network reconnaissance, exploitation, and post-exploitation techniques using the NIST-SP 800-115 framework for security testing

**Project Shield Code Audit**                                                                                Jan 2023 - May 2023
- Performed static and dynamic analysis on over 20K lines of RIT's opensource codebase to uncover security flaws
- Identified 30+ vulnerabilities including SQL injection, OS command injection, and cross-site scripting
- Documented findings in detail with steps to reproduce, severity ratings, and remediation advice
- Presented Top 10 high-severity findings to product leaders, influencing priority fixes before production release

## CERTIFICATIONS

**CompTIA** *Security+*
**TCM** *Practical Network Penetration Tester*

## SKILLS

**Programming:** Python, Java, Go, Git, Docker, Kubernetes, Rust, Powershell, C/C++, AWS, GCP, Bash Scripting, SDLC
**Operating Systems:** Windows, Windows Server, Unix, MacOS, RHEL, Ubuntu, Linux