## Saeid Ghasemshirazi

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## Education \_\_\_\_\_

<b>Carleton University</b> <i>PhD in Computer Science</i>	Ottawa, Canada Jan. 2024 – now
Supervised by Professor Lianying Zhao	
University of Science & Technology	Tehran, Iran
M.Sc. in E-commerce	Sep. 2020 – Sep. 2023
<ul> <li>Supervised by Dr Mohammad Fathian</li> <li>GPA: 18.39/20</li> <li>Thesis: A Novel CNN-based Approach for Smart Contract Vulnerability Detection</li> </ul>	
Shahid Bahonar University of Kerman	Kerman, Iran
B.Sc. in Computer Engineering	Sep. 2015 – Jan. 2020
• GPA: 15.44/20	

• Project: Developed a Python-based tool for automated OSINT

## Experience\_\_\_\_\_

CCSL - Carleton Computer Security Lab	Ottawa, Canada
Graduate Research Assistant	Jan 2024 – Present
<ul> <li>Leveraging machine learning techniques for IoT security audits, including threat detection and threat hunting.</li> <li>Developed a user-friendly tool for smart contract vulnerability detection using a novel CNN approach.</li> <li>Conducting a comprehensive survey on security metrics with an emphasis on reproducibility, aimed at standardizing incomprehensive survey on security metrics with an emphasis on reproducibility, aimed at standardizing incomprehensity.</li> </ul>	dustry practices.
DANAPCO	Kerman, Iran
Back-End Developer	Jan 2022 - Dec 2023
<ul> <li>Developed secure backend applications using Django, focusing on implementing best practices in web security.</li> <li>Integrated authentication and authorization mechanisms to protect sensitive data and user accounts.</li> <li>Implemented input validation and output encoding to prevent common vulnerabilities such as SQL injection and XSS.</li> <li>Conducted security audits and code reviews to identify and mitigate potential security risks.</li> </ul>	
Iran University of Science & Technology	Tehran, Iran
Graduate Research Assistant	Sep 2021 – May 2023
<ul> <li>Explored advanced deep learning techniques to enhance smart contract security.</li> <li>Investigated vulnerabilities and weaknesses in smart contracts, focusing on prevention and patching methods.</li> </ul>	
Barez Industrial Group	Kerman, Iran
Junior Penetration Tester	May 2020 - April 2021
<ul> <li>Identified and exploited a critical SQL injection vulnerability, preventing potential data breaches.</li> <li>Performed penetration tests on web apps, uncovering 20+ vulnerabilities in legacy systems.</li> <li>Collaborated with developers to patch security flaws.</li> </ul>	
InfoSecTube YouTube Channel	Online
Cybersecurity Content Creator	Sep 2019 – Present
<ul> <li>Created and published engaging cybersecurity-related videos, courses, and tutorials.</li> <li>Developed educational materials to enhance knowledge and skills in various cybersecurity domains.</li> <li>Engaged with a broad audience through the InfoSecTube YouTube channel [Link].</li> </ul>	
Graduate University of Advanced Technology (APA Center)	Kerman, Iran
Internship	May 2018 - Aug 2018
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- Enhanced network security through research and specialized in web security using Wireshark and Burp Suite.
- Executed vulnerability scans with Nessus and Acunetix; provided detailed security reports.
- Gained proficiency in malware analysis with IDA Pro.

Featured F	PUBLICATIONS	
Submitted to The 2	<b>Class CNN Model for Vulnerability Detection in Smart Contracts</b> 7th International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2024) <u>zi</u> , Ghazaleh Shirvani, Lianying Zhao	2024
Enabling a Zero <sup>-</sup>	Trust Architecture in a 5G-enabled Smart Grid	2022
arXiv preprint arXiv Mohammad Ali Alip	:2210.01739 our, <u>Saeid Ghasemshirazi</u> , Ghazaleh Shirvani [Link]	
IoT-Shield: A Nov	vel DDoS Detection Approach for IoT-Based Devices	2021
	id Conference (SGC) Saeid Ghasemshirazi, Behzad Beigzadeh [Link]	
Gitcbot: A novel	approach for the next generation of c&c malware	2021
	onal Computer Conference, Computer Society of Iran (CSICC) <u>zi</u> , Ghazaleh Shirvani [Link]	
UltraLearn: Next	-Generation CyberSecurity Learning Platform	2021
	onal Conference on Information and Knowledge Technology (IKT) <u>Shasemshirazi</u> , Ghazaleh Shirvani [Link]	
Featured F	PROJECTS	
Awesome Sma	rt Contract Security	2023
• A curated list of S	mart Contract Security Materials and Resources for Researchers [Repository]	
IoT-Shield		2022
-	hield: A novel data mining technique coupled with process mining to identify misbehavior in IoT devices, facilitat diverse protocols and platforms [Code]	ing threat
Phishing Detec	tion Application	2020
This project, deve	eloped using Django and React Native, offers real-time phishing detection for mobile apps [Code]	
Arduino Based	Encryption and Decryption Module	2019
A simple Encrypt	ion and Decryption module was Designed and Implemented with Arduino using the AES algorithm [Code]	
TECHNICAL	Skills	
Languages	Python, C++, Shell Scripting, JavaScript	
Tools	Burp Suite, Wireshark, Metasploit, Nmap, Sqlmap ,Splunk, Nuclei, IDA Pro, Google Cloud Platform, Linux/UNI	X, Docker, (

Tools	
	LaTeX, PyTorch, TensorFlow
Security Techniques	Penetration Testing, Intrusion Detection, Vulnerability Assessment, Threat Hunting
Security Platforms	Cybersecurity frameworks (e.g., NIST, ISO, CIS)   Security Information and Event Management (SIEM)   OWASP Top10
Certificates	Python for Cybersecurity Specialization, Coursera, InfoSec Institute
	Certified Network Security Specialist (CNSS), ICSI, International Cybersecurity Institute
	Security in Google Cloud Platform, Coursera, Google
	Machine Learning, Coursera, Stanford University
	Enterprise System Management and Security, Coursera, University of Colorado
	Detecting and Mitigating Cyber Threats and Attacks, Coursera, University of Colorado
	Software Security, Coursera, University of Maryland

## Honors & Awards \_\_\_\_\_

2020 Ranked 2<sup>nd</sup> in E-commerce field among all cohorts of 2020.

2015 Ranked 2<sup>nd</sup> in IT Engineering field among all cohorts of 2015.