Saeid Ghasemshirazi

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EDUCATION

Carleton University
PhD in Computer Science

Ottawa, Canada
Jan. 2024 – Present

- Supervised by Professor Lianying Zhao
- GPA: 3.93/4

University of Science & Technology
M.Sc. in E-commerce

Tehran, Iran
Sep. 2020 – Sep. 2023

- GPA: 18.39/20
- Thesis: A Novel CNN-based Approach for Smart Contract Vulnerability Detection

Shahid Bahonar University of Kerman
B.Sc. in Computer Engineering

Kerman, Iran
Sep. 2015 – Jan. 2020

- GPA: 15.44/20
- Project: Developed a Python-based tool for automated OSINT

EXPERIENCE

CCSL - Carleton Computer Security Lab
Graduate Research Assistant

Ottawa, Canada
Jan 2024 – Present

- Leveraging machine learning techniques for IoT security audits, including threat detection and threat hunting.
- Developed a tool for smart contract vulnerability detection using novel CNN approach, achieving 99% accuracy.
- Conducting a comprehensive survey on security metrics with an emphasis on reproducibility, aimed at standardizing industry practices.

DANAPCO
Back-End Developer

Kerman, Iran
Jan 2022 - Dec 2023

- Built secure Django backends, enhancing system security and reliability by 15% using best practices.
- Implemented authentication, authorization, and input validation to prevent vulnerabilities.
- Collaborated with cross-functional teams to ensure application security posture compliance.

Iran University of Science & Technology
Graduate Research Assistant

Tehran, Iran
Sep 2021 – May 2023

- Explored advanced deep learning techniques to enhance smart contract security.
- Investigated vulnerabilities and weaknesses in smart contracts, focusing on prevention and patching methods.

Barez Industrial Group
Junior Penetration Tester

Kerman, Iran
May 2020 - April 2021

- Identified and exploited a critical SQL injection vulnerability, preventing potential data breaches.
- Performed penetration tests on web apps, uncovering 20+ vulnerabilities(e.g., RCE, IDOR) in legacy systems.
- Worked alongside developers and SOC analysts to patch security flaws, enhancing overall system security.

InfoSecTube YouTube Channel
Cybersecurity Content Creator

Online
Sep 2019 – Present

- Created and published educational cybersecurity videos and tutorials for a broad audience.
- Managed InfoSecTube channel [Link] with 2000+ subscribers and 600+ cybersecurity videos.

Graduate University of Advanced Technology (CERT Center)
Internship

Kerman, Iran
May 2018 - Aug 2018

- Improved network and web security using Wireshark, Burp Suite, Nessus, and Acunetix.
- Conducted malware analysis with IDA Pro and delivered detailed vulnerability reports.
- Utilized Splunk for monitoring and analyzing security incidents as part of a comprehensive SIEM platform solution

Featured Publications

Federated Learning: Attacks, Defenses, Opportunities, and Challenges   *2024*

11th International Symposium on Telecommunications (IST)
Ghazaleh Shirvani, Saeid Ghasemshirazi, Behzad Beigzadeh [Link]

IoT-Shield: A Novel DDoS Detection Approach for IoT-Based Devices   *2021*

2021 11th Smart Grid Conference (SGC)
Ghazaleh Shirvani, Saeid Ghasemshirazi, Behzad Beigzadeh [Link]

Gitcbot: A novel approach for the next generation of c&c malware   *2021*

2021 26th International Computer Conference, Computer Society of Iran (CSICC)
Saeid Ghasemshirazi, Ghazaleh Shirvani [Link]

UltraLearn: Next-Generation CyberSecurity Learning Platform   *2021*

2021 12th International Conference on Information and Knowledge Technology (IKT)
Saeed Raisi, Saeid Ghasemshirazi, Ghazaleh Shirvani [Link]

Featured Projects

Awesome Android Security   *2022 – Present*

- Curated Android security tools and resources for pentesters and researchers; 1.7k+ GitHub stars [Repository]

XAI-Android: Explainable Malware Detection   *2025*

- Explainable ML framework for Android malware detection using SHAP and LIME to improve model transparency [Code]

Email Spam Detection using Zero-Shot Learning   *2025*

- Implemented a spam detection system using Zero-Shot Learning and BERT at the intersection of NLP and cybersecurity [Code]

IoT-Shield   *2022*

- Developed a process and data mining framework to detect IoT device misbehavior across protocols and platforms [Code]

Phishing Detection Application   *2020*

- Built a mobile app for real-time phishing detection using Django and React Native [Code]

Arduino-Based Encryption and Decryption Module   *2019*

- Designed and implemented a basic AES encryption/decryption module using Arduino [Code]

Technical Skills

Languages	Python, C++, Shell Scripting, JavaScript, SQL, Solidity
Frameworks / Libraries	Django, Flask, Matplotlib, NumPy, Pandas, PyTorch, TensorFlow, WordPress
Developer Tools	AWS, Docker, Git, Google Cloud Platform, Linux, VS Code, Visual Studio, Cursor
Cybersecurity Tools	Burp Suite, IDA Pro, Metasploit, Nmap, Nuclei, Sqlmap, Splunk, Wireshark, CyberChef, Nessus, Volatility
Security Skills	Intrusion Detection, MITRE ATT&CK, Penetration Testing, Threat Hunting, Vulnerability Assessment, Threat Modeling
Security Standards & Practices	SIEM, OWASP Top 10, NIST, ISO, CIS Frameworks, DevSecOps (Docker, Cloud Security)
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

2024   David and Rachel Epstein Foundation Scholarship For outstanding graduate academic performance

2020   Ranked 2nd in E-commerce field among all cohorts of 2020.