Ghazaleh Shirvani

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EDUCATION

- **University of Science and Technology**[Official WebSite]   Tehran,Iran
  Master of Computer Networks in Computer Engineering   *Sep. 2020 – now*
  Current CGPA: 17.31/20

- **Shahid Bahonar University**[Official WebSite]   Kerman, Iran
  Bachelor of Science in Computer Software Engineering   *Sep. 2015 – Dec. 2019*
  Current CGPA: 17.38/20

RESEARCH INTERESTS

- IoT Security
- Network Security
- Machine Learning
- Cyber Security
- Adverserial Attacks
- Federated Learning

PUBLICATIONS

- **Ghazaleh Shirvani**, Saeid Ghasemshirazi, Behzad Beigzadeh, ”*IoT-Shield: A Novel DDoS Detection Approach for IoT-Based Devices*”, in **2021 11th Smart Grid Conference (SGC).**[IEEE]

- Saeed Raisi, Saeid Ghasemshirazi, **Ghazaleh Shirvani**, ”*UltraLearn: Next-Generation CyberSecurity Learning Platform*”, in **2021 12th International Conference on Information and Knowledge Technology(IKT).**[IEEE]

- Saeid Ghasem Shirazi ,**Ghazaleh Shirvarni**,”*GITCBot: A Novel Approach for the Next Generation of C&C Malware*”, in **2021 26th International Computer Conference, Computer Society of Iran (CSICC).**[IEEE]

- Saeid Ghasemshirazi , **Ghazaleh Shirvani**, Saeed Raisi ”*MC-GAN: A Reimplementation of GameGAN With a Gaming Perspective*”, in **2021 7th International Conference on Web Research (ICWR).** [IEEE]

EXPERIENCE

- **Iran Univercity of Science and Technology**   Tehran, Iran
  Graduated Research Assistant   *2020 - Present*

- **Shahid Bahonar University**   Kerman, Iran
  UnderGraduated Research and Teaching Assistant   *Sep. 2018 - 2019*
  - **Research Assistant - SecurityLab**
    Security research, with a focus of Phishing Detection.
  - **Teaching Assistant**
    Computer Architecture, B.Sc. Course, Fall 2018.

HONORS

- Ranked 3th in Computer Networks field among all cohorts of 2020.
- Ranked 2nd in Software Engineering field among all cohorts of 2015.
- Ranked 3th in the Department of Computer Engineering among 70 entrants of 2015.

CERTIFICATES

- **ICSI Certified Network Security Specialist (CNSS)**, icsi.co.uk
- **Endpoint Security Fundamentals**, elastic.co
- **Foundations of Operationalizing Mitre Attck**, attackiq.com

SKILLS

- **Programming Languages:** Python, X86/64 Assembly, C++, C, Flutter
- **Technologies:** Google Cloud Platform, Linux/UNIX, MacOs, IDA Pro, Docker, Windows, Git, Trello, hexedit, Burpsuit, tcpdump, hexdump, Wireshark, pwn, ROPgadget, Crypto, hashlib, libtins, nmap, ptrace, LaTex, Genymotion

Selected Projects

- **Telegram botnet**
  - a non suspicious spying application implemented using Telegram platform with capalities of capturing camera, messages,...

- **Phishing Detection Application**
  - a react native app implemented in order of warning user to possible Phishing Attacks

Selected Coursework

Graduate Courses

- Special Topics in Computer Networks (1) (19.5/20)
- Special Topics in Computer Networks (2) (18/20)
- Advanced Computer Networks (17.7/20)
- Advanced Computer Security(17/20)

Undergraduate Courses

- Machine Learning* (17/20)
- Computer Vision (20/20)
- Fundamentals of Secure Computing (18/20)
- Assembly Programming (17.25/20)

* graduate course taken during undergraduate studies.

Self-studied Topics

- IoT Security
- Edge Assited IoT
- Network Security Specialist
- Malware Analysis
- LPIC-1 101 & 102 (Linux Professional Institude Certification)
- Federated Learning
- Machine Learning

Languages

- **Persian**: Native

- **English**: Fluent