

EDUCATION

- **Tarbiat Modares University** Tehran, Iran
Master of Secure Computing Sep. 2019 – Sep. 2021
CGPA: 15.75/20 or 3.6/4
- **Shahid Bahonar University** Kerman, Iran
Bachelor of Computer Software Engineering Sep. 2015 – July. 2019
CGPA: 15.44/20 or 3.29/4 — Last 1 year GPA : 17.87/20 or 3.72/4

RESEARCH INTERESTS

- SDN Security
- Intrusion Detection
- Federated Learning
- IoT & IIoT Security
- Vulnerability Analysis
- Adversarial Attacks

PUBLICATIONS

- Ghazaleh Shirvani, **Behzad Beigzadeh**, Saeid Ghasemshirazi, "Powering the Future of IoT: Federated Learning for Optimized Power Consumption and Enhanced Privacy", **In preparation**.
 - **Description:** The article explores how Federated Learning (FL) enhances IoT by optimizing power consumption and boosting privacy. FL reduces communication needs and keeps data on local devices, making IoT systems more efficient and secure.
- Ghazaleh Shirvani, Saeid Ghasemshirazi, **Behzad Beigzadeh**, "Federated Learning: Attacks, Defenses, Opportunities, and Challenges", in **11th International Symposium on Telecommunication (IST'2024)** [[In process of being indexed in IEEE](#)]
 - **Description:** The article examines Federated Learning (FL), emphasizing its security and privacy issues, such as communication bottlenecks and potential attacks, and explores defense mechanisms along with areas for future research.
- 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](#)]
 - **Description:** The article presents IoT-Shield, a method combining data and process mining to detect IoT system anomalies, focusing on XGBoost as the top algorithm for predicting DDoS attacks.

EXPERIENCE

- **Shahid Bahonar University** Kerman, Iran
I held the position of Software Engineer and helped to enhance the security network of the university. Jan. 2022 - Apr. 2024
 - **Instructor**
Teaching ICDL Skills to Students from Various Disciplines, Jan. 2024
 - **Teaching Assistant**
Network Security, B.Sc. Course, Fall 2022.
- **Tarbiat Modares University** Tehran, Iran
Research Assistant Sep. 2019 - Sep. 2021
 - **Research Assistant**
I researched on Software-Defined Networking (SDN) security, with a specific focus on DDoS detection
- **Padidar Technology Corporation** Kerman, Iran
Software Engineer May 2018 - Oct 2018
 - Responsible for developing and extending Restful API using Django

HONORS

- Ranked 189th in 19024, national university entrance exam for M.Sc. degree in Computer Engineering - information security, software engineering and computer network 2019
- Ranked in the top 2.5% out of 210,000 participants in the 2015 National University Entrance Exam.

CERTIFICATES

- **Certified Network+** , Iran's Technical and Vocational Training Organization.
- **Teaching ICDL Skills to Students** , Shahid Bahonar University.

SKILLS

- **Programming Languages:** Python, C#, SQL, JavaScript
- **Technologies:** Burp Suite, Wireshark, Tcpdump, Nmap, Metasploit, Aircrack-ng, Google Cloud Platform, Nessus, Splunk, Linux/UNIX, Git, Django, Acunetix, SIEM, Kali Linux, Volatility, Docker

SELECTED COURSEWORK

Graduate Courses

- | | |
|--------------------------------------|-----------------------------|
| • E-commerce Security (18.2/20) | • Machine Learning(16.6/20) |
| • Cloud Computing(18.31/20) | |
| • Advanced Network Security(16.5/20) | • Security Protocols(16/20) |

Undergraduate Courses

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| • Information Technology Project Management(18.5/20) | • Fundamentals of Computational Intelligence (18/20) |
| • Physics 2(19.5/20) | • Internet Engineering(17.5/20) |

Self-studied Courses

- Pentester Academy: Python for Pentesters
- Pentester Academy: Javascript for Pentesters
- Maktabkhoneh CEH

LANGUAGES

- **Persian:** Native
- **English:** Proficient
 - IELTS : You can phrase it like this:
"I have a minimum score of 6 in each skill, and it's improving every day. I've scheduled my next test for November 30."