Behzad Beigzadeh

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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: 15.57/20 or 3.29/4 — Last 1 year GPA : 17.87/20 or 3.574

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.**

- Saeid Ghasemshirazi, **Behzad Beigzadeh**, Ghazaleh Shirvani, "*Explainable Machine Learning Framework for Android Malware Detection*", in **11th International Conference on Web Research (ICWR2025)** [**Submitted**]

- Ghazaleh Shirvani, Saeid Ghasemshirazi, **Behzad Beigzadeh**, "*Federated Learning: Attacks, Defenses, Opportunities, and Challenges*", in **2024 11th International Symposium on Telecommunication (IST)** [IEEE]

- 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]

ACADEMIC EXPERIENCE

- **Shahid Bahonar University** — Kerman, Iran
  Instructor and Teaching Assistant — Jan. 2022 - Apr. 2024

  - **Instructor** Taught basic computer skills (ICDL) to students from different fields of study , Jan. 2024.
  - **Teaching Assistant** Network Security, B.Sc. Course, Fall 2022.

- **Tarbiat Modares University** — Tehran, Iran
  Research Assistant — Sep. 2019 - Sep. 2021

  - **Research Assistant** Conducted research on Software-Defined Networking (SDN) security, with a specialization in DDoS detection.

WORK EXPERIENCE

- **Shahid Bahonar University** — Kerman, Iran
  Junior Security Specialist and Software Engineer — Jan. 2022 - Apr. 2024

  - **Penetration Testing Specialist** Conducted penetration testing and vulnerability assessments.
  - **ASP.NET Core Programmer** Developed and maintained web applications using ASP.NET Core.

- **Padidar Technology Corporation** — Kerman, Iran
  Software Engineer — May 2018 - Oct. 2018

  - **Restful API Development** Developed and extended Restful APIs using Django.

ACHIEVEMENTS

- Ranked 189th out of 19,024 participants in the 2019 National University Entrance Exam for M.Sc. in Computer Engineering (Information Security, Software Engineering, and Computer Networks).
- Placed in the top 2.5% of 210,000 participants in the 2015 National University Entrance Exam.
- Ranked 1rd in National Royesh Festival, Music Section 2018.

CERTIFICATES

- **Certified Network+** , Iran's Technical and Vocational Training Organization.
- **Teaching ICDL Skills to Students** , Certification for Teaching ICDL Skills, 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)
- Cloud Computing(18.31/20)
- Advanced Network Security(16.5/20)
- Machine Learning(16.6/20)
- Security Protocols(16/20)

Undergraduate Courses

- Information Technology Project Management(18.5/20)
- Fundamentals of Computational Intelligence (18/20)
- Internet Engineering(17.5/20)

Self-studied Courses

- Pentester Academy: Python for Pentesters
- Maktabkhoneh CEH

SELECTED PROJECTS

- **Teaching Security Contents**
  - A collection of educational materials, including slides, videos, and documents, focused on Blockchain, AFL fuzzing, Cryptography, and Network Security. [GitHub]

- **ECDSA-Implementation**
  - Python implementation of the Elliptic Curve Digital Signature Algorithm (ECDSA), showcasing low-level cryptographic operations. [GitHub]

- **RSA-Key-Vulnerability**
  - An educational project demonstrating RSA vulnerabilities when common prime factors are shared between public keys. [GitHub]

LANGUAGES

- Persian: Native.
- English: Proficient.
  - IELTS: Achieved a minimum score of 6 in each skill; scheduled to retake the exam on April 9, 2025.

REFERENCES

- Available upon request.