

# Shayan Amir Shahkarami

Curriculum Vitae

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## Educational Background

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### B.Sc., Computer Engineering, Information Technology

(2024-2020)

University of Tehran Central

- Final Project: Web Crawling toolkit for reconning web applications
- Advised by: Dr. Afzali
- GPA: 3.3 (16.63/20 in Iranian scale)

### Specialized High School of Daneshmand

(2017-2020)

High school diploma in Mathematics and Physics-GPA: 18.51/20

## Academic Experience

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### Teaching Assistant

- Engineering Economics (for undergraduate students), Spring 2023 University of Tehran Central  
Supervised by: Dr. Motevali

### Educational Experience

- Introduction to Blockchain Security Fundamentals- University of Tehran Central  
Supervised by: Dr. Shirazipour  
Holding a speech about Distributed systems, how Blockchain Works, and Basic introduction to it's security.
- Introduction to SQL Injection- University of Tehran Central  
Supervised by: Dr. Hosseini  
Holding lecture about SQL injection attack and using sqlmap. Identifying MySQL DB for the attack's initial step.
- Evaluation of Cloud's Infrastructure As a Service (IaaS)- University of Tehran Central  
Supervised by: Dr. Motevali  
Discussing cloud services and giving example of my own job experience in server room. Pros and Cons of IaaS.
- Exploiting Microsoft Excel Macros for Malicious Payload Delivery- University of Tehran Central  
Supervised by: Dr. Zaghari  
Tips on how to create malicious Macros and how to inject them in Excel. Defining how to send to the victims.

## Research Interests

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- Computer Security and Privacy
- Artificial Intelligence and Machine Learning
- Applied Machine Learning in Cybersecurity
- Data Mining and Analysis

## Research Experience

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### Evaluation of Black-Box Web Application Security Scanners in Detecting XSS Injection Vulnerabilities (Ongoing)

This project aims to comprehensively evaluate the efficacy of commercially available black-box web application scanners in identifying cross-site scripting (XSS) vulnerabilities. By testing a suite of widely adopted tools against a modern, vulnerable web application, we seek to measure the scanners' performance.

### Web Crawling toolkit for reconning web applications

There are many tools out there for crawling web applications and fingerprinting them. We have studied the best of them and combined them to have access in one place and accelerate the process. The toolkit is written in bash.

## Honors & Awards

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- Was awarded for IMC (International Maths Challenge), Ranked 1<sup>st</sup> in Elementary schools
- Ranked 26<sup>th</sup> among 260 participants in Isfahan university of technology's CTF.

## Work Experience

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### FuzzerCloud — Security Researcher

July 2022 — Present

- System security research, Mostly Black Box scanner tools and web penetration testing. [FuzzerCloud](#)

### internship program — Introduction to IT Help Desk & User Support

Nov 2022 — Jan 2023

- Turquoise Partners industry [wikipedia](#)
- Infrastructure and IT fundamentals. Configuration of Switch

### internship program — Introduction to Cybersecurity Tools & Cyber Attacks

Feb 2023 — May 2023

- Working with the firewall dashboard, scanning local network with tools
- Working with BitDefender

## Professional Development

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- security+ at [CanDo](#) academy, Jun 2022, Credential ID 01/43154
- CCNA 200-301 at [CanDo](#) academy, March 2023, Credential ID:01/51339
- Certified Ethical Hacker, [nooranet](#) academy, November 2022, CID: 20221207-54-SK6436
- Certified Security Professional (CSP), [nooranet](#) academy, November 2022, CID: 20221208-69-SG6781
- Red Team Expert, [nooranet](#) academy, February 2023, CID: 20230413-22-XD5154

## Languages

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- TOEFL IBT — Test Date: Oct-27-24 — Level: Advance
- A2 Germany — Passed — Level: B2 class finished in Goethe — score 71/100
- Persian — Native

## Calculator with assembly 8086

([Github](#))

## Web Application crawler with open-source tools and bash

Vulnerability scanner, written with open source tools and bash script language. ([Github](#))

## Skills

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### Programming languages:

C++, Python, Solidity (learning with JavaScript), Assembly understanding, C

### Simulation Software:

Cisco Packet Tracer, Proteus

- Infrastructure Configurations: Switch and Router config
- Working with Firewall dashboard
- Docker and Kubernetes
- Finding bugs and problem-solving

## Certificates of Workshops, Events, Memberships

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|---|-------------|
| AI For Everyone   | Coursera    |
| Research Member of Fuzzer Cloud   | (2022-2024) |
| Developer Member of Fuzzer Cloud  | (2022-2023) |
| Lecturer of Historical Cyber Attacks at Firooze Asia IT-Conference room | (2022)      |

## Educational References

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Dr. Mirabedini Javad jav.mirabedini<sub>s</sub>hirazan@iauctb.ac.ir  
*Professor, Department of Computer Engineering, Rafsanjani Complex*  
IAU CTB Islamic Azad University, Tehran, Iran

## Academic Accounts

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- [Github](#)
- [LinkedIn](#)
- [Website](#)