





Mohammadreza Sarayloo

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Education	B.Sc. in Computer Engineering - Information Technology <i>Azad University, Central Tehran Branch (IAUCTB)</i>  Tehran, Iran <i>Sep 2016 - Jul 2021</i>
	<p>Thesis: Implement a security architecture to detect threats in the network and web-based attacks using IDS and SIEM,</p> <ul style="list-style-type: none">• 150 credits program with GPA 3.11/4.00. GPA of the last 69 credits is 3.78/4.00• Selected courses: Artificial Intelligence and Expert Systems (20/20) - Database Design (20/20) - Information Technology Project Management (20/20) - Internet Engineering (19/20) - Computer Networks (18.5/20) - Systems analysis and design (17/20) - Compiler Design Fundamentals (17/20)
Research Interests	<ul style="list-style-type: none">• CyberSecurity• Web Application Security• Machine Learning• Computer Forensics• Privacy and Access Control• Big Data
Personal Projects and Contributions	<p>Hashlookup Forensic Analyser  <i>Oct 2021 - present</i></p> <p>Participating in this project to improve performance and implement automated python tests using bandit, flake8, mypy, isort, and black. This tool can help a digital forensics investigator to know the context and origin of specific files during investigation using hash lookup.</p> <p>RedTeam Web Application Toolkit  <i>Aug 2021 - present</i></p> <p>The RedTeam Toolkit is an open-source Django offensive web application written in Python that provides offensive tools which the security specialist can use as part of a red-team to identify vulnerabilities. Currently, it supports the following modules:</p> <ul style="list-style-type: none">• Scan ports and vulnerabilities/CVEs on the target• Live hosts (scan all live hosts in the network scale)• Dir Scan (scan all directories on a target)• CVE Description (CveID Search)• SSH password guessing• RDP user and password guessing• WebApps Section<ul style="list-style-type: none">◦ Apache Path Traversal Scanner (CVE-2021-41773, CVE-2021-42013)◦ Web Crawler for gathering URLs◦ SubDomain Enumeration◦ HTTP Verb Tampering• Windows Section<ul style="list-style-type: none">◦ Microsoft Exchange ProxyShell Scanner (CVE-2021-34523, CVE-2021-34473, CVE-2021-31207) <p>Splunk SIEM queries for Fortiweb and Fortigate assets  <i>Oct 2021</i></p> <p>a set of Splunk queries and visualizations for FortiWeb and Fortigate assets, which may aid SOC analysts and security experts in spotting anomalous behavior in splunk.</p>

Experience

Teaching Experience

Teacher Assistant

Tehran, Iran

Azad University, Central Tehran Branch (IAUCTB)

- **Linux Operational System Labs (6 labs)** Oct 2021 - present
Under supervision of **Prof. Nayereh Zaghari**
Responsibilities: Head Teaching Assistant, evaluate students project, teacher in problem-solving, create quizzes.
- **Image Processing project of B.Sc. students** Apr 2020 - Aug 2020
Under supervision of **Prof. Nayereh Zaghari**
Responsibilities: Problem-Solving in python programming language
- **Engineering Economics Course** Feb 2020 - Jul 2020
Under supervision of **Prof. Mohammad Mahdi Motevali**
Responsibilities: Teacher in Problem-Solving, Documenting students progress

Professional Experience

SOC Tier-1 Security Analyst

Tehran, Iran

Faraz Pajouhan

Apr 2021 - present

- Working as a contractor on various of projects including KianDigital Company (Fintech industry) and Iran Railways (Subdivision of Iran Ministry of Roads and Urban Development).
- Investigating and analyzing ransomware using digital forensics.
- Monitor and analyze logs and events daily, to determine whether any events could constitute a genuine security incident.
- Performing security monitoring, reviewing, investigating and reporting the events generated by the SIEM.
- Create queries, panels and design monitoring dashboards and visualizations to detect real-time attacks in the SIEM systems such as Splunk.
- Working with Red-Team tools to detect vulnerabilities in case of Linux systems, web-applications, services and protocols.
- Linux server administration in some cases such as monitoring SIEM collectors health and create some configs to work easier with kubernetes and containers.

SIEM Plugin Developer

Tehran, Iran

Faraz Pajouhan

Dec 2020 - Apr 2021

- SIEM Administration.
- Developing SIEM knowledge base (KB) and implementing security usecases.
- Collect and normalize security logs to make them easier to understand and extract important information.
- Developing log analysis patterns.
- Monitoring SIEM collectors health in some cases (on linux servers).
- Working with Splunk SIEM and create panels and dashboards to monitor events.
- Create some configs to work easier with kubernetes and containers (for SIEM) on linux servers.

- Monitoring SIEM collectors health in some cases (on linux servers).
- Normalize security logs and extract important information to make them easier to understand .
- Developing log analysis patterns.
- Learn a lot from SOC layer 2 and layer 3 security analysts which helped me grow.

- Skills**
- **Linux:** System Administration, Auditing, Selinux, SSH hardening, WebServer hardening, PAM
 - **Programming:** Skilled in Python3, SQL. Familiar with: BashScript, HTML, CSS
 - **Technologies:** Django, Splunk SIEM, PostgreSQL, Suricata, OPNSense, Docker, Git
 - **Other Skills:** Log Analysis, Network+, Regular expression, Digital Forensics

- Courses and Certificates**
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| Linux Security (LPIC3-303) | <i>Sep 2021</i> |
| <i>Private Course under supervision of Mohammad Hosein Askari</i> | |
| Splunk Beginner | <i>Sep 2021</i> |
| <i>Udemy</i> | |
| Computer Network Security | <i>Sep 2021</i> |
| <i>Udemy</i> | |
| Linux Network Professional (LPIC-2) | <i>Apr 2021</i> |
| <i>Fanavaran Anisa</i> | |
| Learn to code with python | <i>Jul 2020</i> |
| <i>Udemy</i> | |
| PostgreSQL Course | <i>Jul 2020</i> |
| <i>Udemy</i> | |
| Cybersecurity Course | <i>May 2020</i> |
| <i>Udemy</i> | |
| Linux Lpic-1 | <i>Jan 2019</i> |
| <i>IEEE Iran Section</i> | |
| Network + | <i>Jan 2019</i> |
| <i>IEEE Iran Section</i> | |

- Languages**
- Persian:** Native proficiency
- English:** Full professional proficiency *IELTS Score: Will be taken March 2022*

- References**
- Prof. Mohammad Mahdi Motevali**
 Instructor at the Department of Computer Engineering of the IAUCTB
mmotevali@iauctb.ac.ir
- Mohammad Hosein Askari (Linkedin)**
 Security instructor at Fanavaran Anisa
 CyberSecurity Manager at Linux-Zone.org
security@linux-zone.org