

# MohammadHossein Sedghi

*Curriculum Vitae*

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<i>Birth</i>	March 2002	<i>Github</i>	<a href="#">Mohammad-Hossein-Sedghi</a>
<i>Nationality</i>	Iranian	<i>Linkedin</i>	<a href="#">Mohammadhossein-sedghi</a>
<i>Mail</i>	<a href="mailto:msedghi19@gmail.com">msedghi19@gmail.com</a>	<i>Medium</i>	<a href="#">UrsaBear</a>

## RESEARCH INTERESTS

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- Machine Learning for Cybersecurity and Threat Detection
- Anomaly Detection and Behavioral Modeling in Networked Systems
- Robust and Secure Machine Learning Models

## EDUCATION

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**B.Sc. in Computer Engineering**    **GPA: 17.45/20.0 (3.5/4.0)**    Sep 2020 – Feb 2025  
*University of Arak, Iran*

**Courses:** Artificial Intelligence & Expert Systems (18/20), Algorithm Design (19.5/20),  
Internet Engineering (17.5/20), Computer Networks (17.7/20), Database (19.5/20).

## PROJECTS

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**LSTM-based Intraday Stock Price Prediction** [\[Link\]](#)    Sep 2024 – Jan 2025  
*Supervisor: Prof. MohammadHossein Shakoor    Tech: Python, TensorFlow/Keras*

- Built an **LSTM model** to predict **minute-level stock prices** and reached **0.0254 MSE**.
- Set up a **training pipeline** with checkpoints, learning-rate scheduling, and validation tracking.
- Analyzed **model errors** and behavior to understand where the predictions failed or improved.

**Online Real-Time Snowball Game** [\[Link\]](#)    Sep 2024 – Jan 2025  
*Supervisor: Prof. Hossein Ghaffarian    Tech: Node.js, Socket.IO, JavaScript*

- Developed a **real-time multiplayer game** with synchronized gameplay and chat.
- Designed a **low-latency client-server structure** with simple, reliable packet handling.
- Implemented **room management** and collision logic.

**Human Resource Management System** [\[Link\]](#)    Jan 2023 – May 2024  
*Supervisor: Prof. Ali Reihanian    Tech: UML, System Design*

- Led a **4-person team** to design a real-world **HR analytics dashboard** for **Godakhtar Company**
- Delivered **UML diagrams** and an implementation plan with **milestones** and **risk analysis**.

## WORK EXPERIENCES

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### Bug Bounty Hunter *(Freelance)*

May 2025 – Present

Platforms: *HackerOne; Ravro*

- Reported **5 triaged** vulnerabilities across multiple platforms.
- Ranked **4th** on Syfe.com Hall of Fame (HackerOne, alias: notjamesjohnson) [\[Link\]](#)
- Completed **300+** web security labs (PortSwigger, PentesterLab) [\[Link\]](#)

### Web Developer *(Internship)*

Feb 2024 – Jun 2024

EKVAN Co. – Arak, Iran

- Managed and customized **WordPress** plugins to meet client requirements.
- Implemented UI and functionality updates for production websites.

## SKILLS

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- **Programming** : Python, C++, Java, Git, SQL
- **Machine Learning** : TensorFlow, Keras (LSTM modeling and evaluation)
- **Web Security** : Burp Suite, Wireshark, Kali Linux, Amass, Nmap, Nuclei
- **Web Technologies**: WordPress, JavaScript

## CERTIFICATIONS

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### PentesterLab – Android Badge [\[Link\]](#)

Aug 2025

Reversing, static/dynamic analysis, API abuse, deserialization.

### PentesterLab – Essential Badge [\[Link\]](#)

Jul 2025

IDOR, Authentication, SSRF, RCE, SQLi, XSS, Open Redirect.

### PentesterLab – White Badge [\[Link\]](#)

Jul 2025

Core web vulnerabilities, manual exploitation.

### PentesterLab – HTTP Badge [\[Link\]](#)

Jul 2025

Complex HTTP request crafting via curl/Python scripts.

## LANGUAGES

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**English:** *IELTS: 7.5/9.0 (C1) — Listening: 8.5, Reading: 7.5, Speaking: 7.0, Writing: 6.0*

**Persian:** *Native*

## RECOMMENDATIONS

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### • Prof. Ali Reihanian

Assistant Professor at Arak University

[\[Link to this Letter of Recommendation\]](#)

Contact: [a-reihanian@araku.ac.ir](mailto:a-reihanian@araku.ac.ir)

### • Prof. Mohammad Hossein Shakoor

Assistant Professor at Arak University

[\[Link to this Letter of Recommendation\]](#)

Contact: [mh-shakoor@araku.ac.ir](mailto:mh-shakoor@araku.ac.ir)

### • Prof. Hossein Ghaffarian

Assistant Professor at Arak University

Contact: [h-ghaffarian@araku.ac.ir](mailto:h-ghaffarian@araku.ac.ir)