

MohammadHossein Sedghi

Curriculum Vitae

Birth March 2002
Nationality Iranian
Mail msedghi19@gmail.com

Github [Mohammad-Hossein-Sedghi](#)
Linkedin [Mohammadhossein-sedghi](#)
Medium [UrsaBear](#)

RESEARCH INTERESTS

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

EDUCATION

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

LSTM-based Intraday Stock Price Prediction [\[Link\]](#) Sep 2024 – Jan 2025
Supervisor: Prof. MohammadHossein Shakoob *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

Bug Bounty Hunter (*Freelance*)

Platforms: HackerOne; Ravro

May 2025 – Present

- 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*)

EKVAN Co. – Arak, Iran

Feb 2024 – Jun 2024

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

SKILLS

- 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

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

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

Persian: Native

RECOMMENDATIONS

- Prof. Ali Reihanian
Assistant Professor at Arak University
[\[Link to this Letter of Recommendation\]](#) Contact: 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
- Prof. Hossein Ghaffarian
Assistant Professor at Arak University Contact: h-ghaffarian@araku.ac.ir