



Reza Saghi

Prospective MSc Thesis Student in Computer Science

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Profile Summary

Computer Engineering graduate with a strong academic record (GPA: 18/20, ranked 1st in the Computer Engineering program) and a solid background in software engineering and backend development. Experienced in designing and developing software systems, with hands-on experience in applying machine learning techniques to cybersecurity-related problems. Interested in Artificial Intelligence, Machine Learning, and AI-driven Software Engineering, with a strong motivation to pursue research in intelligent and trustworthy software systems through a thesis-based MSc program.

Education

Bachelor of Computer engineering

Branch: Artificial Intelligence

Institute/University: Shahid Chamran University of Ahvaz

Ahvaz, Khuzestan, Iran

September 2021 - September 2025

GPA: 18.00 / 20.00

Ranked 1st in the Computer Engineering program

Diploma in Mathematics and Physics

Institute/School: Talayehdaran National Organization for

Development of Exceptional Talents (SAMPAD) High School

Ahvaz, Khuzestan, Iran

GPA: 19.4 / 20

Work Experience

Freelance Software Developer

Ahvaz, Khuzestan, Iran

August 2023 - Present

Tasks and Achievements

- Designed and developed custom web and mobile applications for clients using modern software development technologies.
- Built scalable backend services and RESTful APIs, integrated databases, and implemented authentication and cloud-based solutions.
- Collaborated directly with clients to gather requirements, deliver tailored solutions, and provide ongoing technical support.
- Focused on writing clean, maintainable, and efficient code while meeting project deadlines.

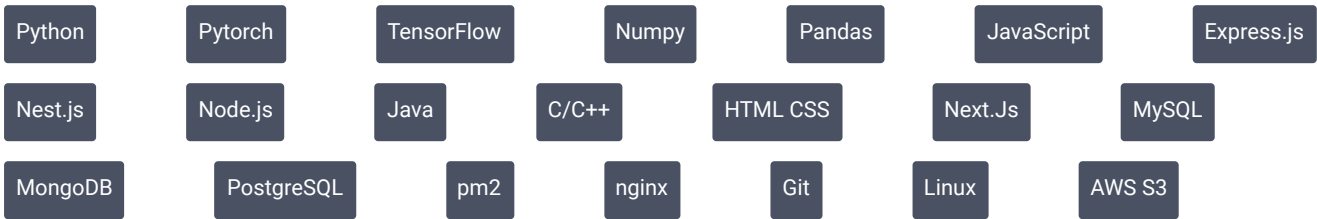
Technical Lead & Full-Stack Developer

Pharmoxin Online Pharmacy Group

Ahvaz, Khuzestan, Iran

April 2024 - December 2025

Skills



Language

English ●●●●●

Persian ●●●●●

Undergraduate Teaching Assistant (TA)

Fall 2023 (First Semester 2023–2024)

Institute: Fundamentals of Computer Programming - Specialized English

Spring 2024 (Second Semester 2023–2024)

Institute: Formal Languages and Automata Theory

Fall 2024 (First Semester 2024–2025)

Institute: Advanced Programming

Spring 2025 (Second Semester 2024–2025)

Institute: System Analysis and Design - Operating Systems Laboratory

Spring 2025 (Second Semester 2024–2025) - Faculty of Computer Science and Mathematics

Institute: Artificial Intelligence - Artificial Intelligence Laboratory

Fall 2025 (First Semester 2025–2026)

Institute: Natural Language Processing (NLP)

Projects

Intrusion Detection System (IDS) Classification Using Machine Learning

Built a resource-constrained Intrusion Detection System on CIC network-traffic data to compare MLP, Random Forest, and SVM under limited compute/memory, and identify which pipeline performed best. Evaluated PCA, feature selection, undersampling, and SMOTE; Built a desktop and web GUI for loading trained models and classifying network flows.

- Built an end-to-end IDS pipeline on CIC network-traffic data using PyTorch MLPs and scikit-learn models (Random Forest, SVM).
- Handled large, imbalanced datasets via streaming/chunked processing, undersampling, SMOTE, PCA, and feature selection.
- Delivered desktop and web GUIs to run multi-class attack prediction on live feature inputs.

Yara car group application Back-End

For: Yara Auto Repair Group

Engineered the backend of a real-time automotive repair and roadside assistance platform using NestJS, TypeScript, MongoDB (Mongoose), and WebSockets. Developed scalable RESTful APIs and real-time event-driven services for authentication, vehicle management, repair shops, tow truck dispatching, booking workflows, and live service status updates. Implemented JWT authentication, RBAC, OTP verification, file management, and comprehensive Swagger/OpenAPI documentation. Designed a modular, maintainable architecture focused on scalability, security, and high-performance communication between clients and the server.

document : <https://api-yara.rezasaghi.ir/docs>

Link: api.yaracargroup.com/docs

"Cook This!" Smart Kitchen Manager

A mobile-first Progressive Web App (PWA) that suggests Persian recipes from pantry ingredients using an LLM API. Developed with Next.js, React, TypeScript, and Tailwind CSS, including pantry management, shopping lists, OTP auth, and SMS sharing via third-party APIs.

- Developed an AI-powered recipe suggestion PWA (Next.js 14, React, TypeScript, Tailwind CSS) with RTL Persian UI
- Integrated LLM chat completions for structured recipe generation from user ingredients via App Router API routes
- Implemented pantry tracking, multi-list shopping features, OTP phone auth, and SMS delivery (SMS.ir), with client-side persistence via localStorage

Link: innobepaz.ir

Online Clothing Back-End

For: Clothing Club

Developed the complete backend using Node.js, Express.js, and MongoDB, including JWT authentication, role-based access control (RBAC), OTP verification, RESTful APIs, and cloud storage integration.

Link: <https://github.com/RezaSaghii/ClothingClub-Back-End>

Technical Lead & Full-Stack Developer

For: Pharmoxin Online Pharmacy Group

"Chi Begam?" Messenger

For: A personal project

Link: chibegam-app.ir

Personal Portfolio

Link: www.RezaSaghi.ir

Smart Instagram Virality Calculator

Analyzed the viral potential of Instagram content using predefined quality metrics and generated intelligent recommendations to optimize engagement, reach, and overall virality.

Link: calculator.rezasaghi.ir

Honors & Activities

Ranked 1st in the Computer Engineering program

Former Member of the Artificial Intelligence Student Scientific Association, Shahid Chamran University of Ahvaz

Member of the Organizing Committee, SCU-CPC Programming Contest

Member, Office of Gifted Students, Shahid Chamran University of Ahvaz