

Sarina Hemmatpour

Shahin Shahr, Isfahan Province, Iran

Sex Female

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EDUCATION

Bachelor's Degree in Computer Software Engineering

2019 – 2023

Shahid Chamran University of Ahvaz (Jundi Shapur), Ahvaz, Iran

Overall GPA: 16.6/20 (3.36/4)

Last 2 years' GPA: 17.4/20 (3.65/4)

Final Project: Gas Company Operations Management System (Android application) [GitHub Repository](#)

Advisor: Dr Marjan Naderan

Selected Courses:

- | | |
|---|---|
| ○ Software Project (20/20) | ○ Logical Circuits (19.93/20) |
| ○ Fundamentals of Computer Vision (20/20) | ○ Programming Languages Design (19.5/20) |
| ○ Principles of Compiler Design (20/20) | ○ Computer Architecture (19.38/20) |
| ○ Discrete Mathematics (20/20) | ○ Artificial Intelligence and Expert Systems (19.30/20) |

High School Diploma of Mathematics and Physics

2016 – 2019

Farzanegan Highschool, Isfahan, Iran

Overall Score: 19.38 / 20

Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

INTERESTS

- | | | |
|-------------------|--------------------------------------|-------------------------------|
| ○ Cloud Computing | ○ Software Testing | ○ Natural Language Processing |
| ○ Compiler Design | ○ Software Development Methodologies | ○ Machine Learning |

WORK EXPERIENCE

Software Engineer

Jun. 2023 - Present

[Hamyarzaban Company](#), Iran, Ahvaz

A language learning platform with 700,000+ users

Backend & Server Management: Developed and maintained the **Hamyarzaban backend** and **CMS** using **Node.js**. Implemented a custom **NLP core** for the dictionary feature using **Python** and **spaCy**, enabling contextual word recognition. Configured servers with **Nginx** and **IIS**, an integrated scalable architecture, APIs, and secure deployment environments.

Android Development: Contributed to the development of the **Android application** ([Hamyarzaban](#)) using **Java**, focusing on UI/UX design, feature implementation, and performance optimization.

Co-founder & Backend Developer

Feb. 2024 - Present

Lingolite, Remote

Product Development: Conceived and co-developed Lingolite, a language learning platform. Collaborated on the roadmap, structure, and oversaw the UI/UX design process to ensure alignment with project goals.

Backend Development: Actively coding the **backend API** using **Node.js**, in partnership with the co-founder, focusing on robust architecture and scalability.

Note: Project currently in development.

TEACHING EXPERIENCE

Logic Circuits

Fall 2022

Role: Teaching Assistant

Instructor: Dr Mohammad Rashti

Responsibilities: Graded homework assignments and assisted with Verilog concepts during lab sessions

Advanced English for Computer Science

Fall 2022

Role: Teaching Assistant

Instructor: Dr Mohammad Rashti

Responsibilities: Graded homework assignments and assisted with course-related English language tasks

Fundamentals of Computer and Programming

Spring 2021

Role: Teaching Assistant

Instructor: Elham Nikookar

Responsibilities: Developed and graded homework assignments and provided assistance in C++, Object-Oriented Programming (OOP), and related topics

Fundamentals of Computer and Programming

Fall 2020

Role: Teaching Assistant

Instructor: Elham Nikookar

Responsibilities: Developed and graded homework assignments and designed the final course project

SKILLS

Programming & Frameworks: JavaScript, Node.js, Express.js, Java, Kotlin, C++, C, Python, Verilog, WebSocket, REST API

Databases & DevOps: MySQL, MongoDB, Mongoose, SQL Server, NoSQL, Git, Nginx, IIS, PM2, Cisco Packet Tracer

Mobile & Software Development: Android (Kotlin, Java), OOP, Multithreading, Software Design Patterns, SOLID design principles, Software Development Methodologies such as Scrum and Agile

PROJECTS

Komak Daroo (Android)

[App in Café Bazaar](#)

Android application for reminding users of medicine schedules using **Alarm Manager**. Features include adding doctors, medicines, and setting custom alarms.

Airport Management System

[GitHub Repository](#)

Developed an Airport Management System using **JavaFX** and the **MVC architecture**. The system manages various airport operations, providing an intuitive user interface.

Word Puzzle Game (Android)

[GitHub Repository](#)

Developed an interactive word puzzle game using **Java** and **Android SDK** with level-based gameplay, custom views, and dynamic character selection.

To-Do List App with MVP Architecture (Android)

[GitHub Repository](#)

Built an **Android** to-do app using **MVP pattern** and **Room database**. Features include task **CRUD** operations, importance levels, search, and detail view with live updates.

Android File Manager App (Android)

[GitHub Repository](#)

Built a file manager app in Java with folder creation, search, grid/list view toggle, and file operations (copy, move, delete) using external storage.

Android Music Player App (Android)

[GitHub Repository](#)

Developed a full-featured music player in **Java** with playlist UI, playback controls, shuffle/repeat modes, and real-time slider sync using **MediaPlayer API**.

Library Database Design with SQL

[GitHub Repository](#)

Designed and implemented a **relational database** for a library system using **SQL** scripts with views, stored procedures, and normalized schema structure.

Hotel Management System Analysis (UML Project)

[GitHub Repository](#)

Designed and analyzed a hotel management system using **UML** diagrams, including use case, class, and sequence diagrams.

Romania Map Pathfinding (Discrete Math Final Project)

[GitHub Repository](#)

Implemented **Dijkstra's algorithm** in **Java** to find the shortest path between cities on the Romania graph.

Template-Based Linked List Library

[GitHub Repository](#)

Built a **generic doubly linked list** in **C++** with features like insertion, deletion, search, sort, and reverse.

Robot Simulation for Obstacle Avoidance and Pathfinding

[GitHub Repository](#)

Developed a robot simulation using **Webots**, implementing **obstacle avoidance** and **wall-following** algorithms. It involved designing a robot capable of navigating a simulated environment, detecting obstacles, and finding the optimal path using **backtracking** and **heuristic** methods.

Search Algorithms for 8-Puzzle Solver with GUI (AI Course Project)

[GitHub Repository](#)

Developed a **Java-based** interactive 8-puzzle solver integrating **Uniform Cost Search**, **Iterative Deepening Search**, **A***, and **Iterative Deepening A* algorithms**. Designed a user-friendly GUI for input and visualization. Implemented custom **heuristics** and **state-space exploration** with **cycle avoidance**.

Sudoku Solver with AI Techniques (AI Course Project)

[GitHub Repository](#)

Solved Sudoku puzzles using **backtracking** with **forward checking**, **MVR**, and **degree heuristics** in **Java**.

Packet Capture & Scan Detection (Networks Course Project)

[GitHub Repository](#)

Analyzed **PCAP files** using **Scapy** in **Python** to extract **protocol stats** and detect **scanning attacks** via **TCP flag** analysis.

LANGUAGES

Persian

Native

English

IELTS Academic **8** (Listening: **9**, Reading: **9**, Writing: **7**, Speaking: **7.5**)

TRAINING COURSES AND CERTIFICATES

Mastering Text Rewriting and Paraphrasing for Academic and Professional Writing

Jun. 2025

Faradars Organization, instructed by

Python Programming Essentials

Jun. 2025

Faradars Organization, instructed by Dr. Pejman Egbali

Python Applications with Practical Examples

Jun. 2025

Faradars Organization, instructed by Eng. Abbas Mohammadi

Deep Learning

May. 2023

Shahid Chamran University of Ahvaz, Computer Engineering Scientific Association

Security+

Mar. 2022

Shahid Chamran University of Ahvaz, APA Center

Network+

Dec. 2021

Shahid Chamran University of Ahvaz, APA Center

REFERENCES

Dr Marjan Naderan

Associate Professor, Department of Computer Engineering, Shahid Chamran University of Ahvaz

m.naderan@scu.ac.ir

Dr Mahmood Farokhian

Assistant Professor, Department of Computer Engineering, Shahid Chamran University of Ahvaz

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