

# Mohammadhossein Haajihosseini

## Software Engineer

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 Tehran, Iran

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## SUMMARY

Software Engineer with 3.5 years of experience in full-stack development, working with Java Spring Boot, ASP.NET Core, Entity Framework, and SQL-based databases. Passionate about clean architecture and building maintainable. Experienced in adapting to large, complex projects and capable of designing internal software components tailored to specific requirements.

## EDUCATION

### B.Sc. Computer Engineering


#### Sharif University Of Technology


 Oct. 2020 - ONGOING

 Tehran

### Physics & Mathematics Diploma

#### Sadat School


 Oct. 2018 - Oct. 2020


 Isfahan

## EXPERIENCE

### Research Assistant (AI Projects)

#### Sharif University of Technology


 Apr. 2025 - present (10 mos)


 Tehran

- Collaborated with university professors on AI-related software projects, contributing to research initiatives and development efforts.
- Developed SSO (Single Sign-On) authentication system using Python.
- Reviewed, modified, and customized open-source AI platforms including Dify.ai, Open WebUI, and MindsDB to meet project requirements.
- Worked full-stack using Svelte for frontend and Python (FastAPI) for backend development in customizing these platforms.

### Software Engineer (.NET)

#### IAIS

 Jun. 2024 - present (10 mos)

 Tehran

- Quickly adapted to and mastered a new programming language, showcasing the ability to efficiently learn and apply new technologies in a professional setting.
- Designed and implemented financial systems tailored to specific client requirements, ensuring precision, scalability, and alignment with industry standards.
- Collaborated with cross-functional teams to deliver high-quality solutions, maintaining clear communication and problem-solving skills.

## ACHIEVEMENTS

### University Entrance Exam

#### Mathematics and Physics

 Jul. 2020

 Iran

Ranked 130<sup>th</sup> among 155,250 participants.

## MOTIVATION

Seeking a long-term commitment with a company that values growth and teamwork. Passionate about deep learning, problem-solving, and creative challenges, aiming to contribute, grow, and evolve in a supportive environment.

## SKILLS

### Main Skills

- Spring Boot
- Java
- C#
- ASP .NET
- AOSP
- C & C++
- AKKA
- SQL
- Git
- Linux command-line

### Other Skills

- VIM
- Python
- Svelte
- FastAPI
- Algorithm & Data Structures
- Object-Oriented Concepts and Design Patterns
- Debugging & Testing
- Network Protocols
- Various Software Architectures
- HDL: Verilog
- $\LaTeX$
- JetBrains IDEs
- GitLab, Confluence, Jira
- Effective Searching

- Designed and developed a domain-specific language (DSL) to enable seamless interaction between accounting personnel and the custom-built financial system.
- Promoted and facilitated the adoption of Scrum methodology, task management practices, and organizational workflows to enhance team productivity and collaboration across the company.

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## Android Core Developer

### Mahsan

📅 Dec. 2023 - Jun. 2024 (6 mos)    📍 Tehran

- Contributed to the development of a secure Android ROM using AOSP.
- Leveraged Java, C++, and Kotlin for software development.
- Engaged in collaborative problem-solving within the open-source community.
- Proposed and implemented a creative bug fix for emergency calling on Android 14 for Pixel phones, showcasing problem-solving skills and initiative.
- Developed and integrated a new feature into Android 14, enabling users to share VPN upstream network via tethering, demonstrating innovation and technical proficiency.

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## Software Engineer

### Behpaya

📅 Jul. 2023 - Oct. 2023 (4 mos)    📍 Tehran

- Developed robust REST APIs using Spring Boot and Hibernate.
- Collaborated on the development of "Moein," an integrated operation monitoring system.
- Utilized ClickHouse for big data management.

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## Junior Back-end Developer

### SobhanTech

📅 Nov. 2021 - Mar. 2023 (17 mos)    📍 Isfahan

- Managed SQL database using Hibernate and JPA.
- Contributed to a messenger app server with 30 million users.
- Implemented essential voice call features for the messenger server-side.
- Explored software architecture with AKKA toolkit. Got familiar with Actor Model.

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## Software Engineer Intern

### SobhanTech

📅 Jul. 2021 - Nov. 2021 (5 mos)    📍 Isfahan

- Developed RESTful APIs using Spring framework.
- Utilized Spring Data for database management.
- Implemented authentication with Spring Security.

## INTERESTS

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- Learning
- Challenges & Problem Solving
- Software Design and Development
- Low-Level Programming
- Software Architecture
- Theoretical Exploration

## LANGUAGES

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**English:** Upper-Intermediate

**Persian:** Fluent

**Arabic:** Elementary

## PROJECTS

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### Yu-Gi-Oh

#### Advanced Programming Course Project

- Developed a server-client game using Java and JavaFX.
- Showcased teamwork and problem-solving skills.

### XV6 FFS

#### Operating System Course Project

- Added Fast File System(FFS) to XV6 Operating System.
- Implemented in C programming language.