

# Amir Mahdi Mohamadian

School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, Tehran, Iran

☎ (+98) 991-237-7345 | ✉ amirmahdi.mohamadian79@gmail.com | 🏠 amirmahdim79.github.io/ | 📺 amirmahdim79 | 🌐  
amir-mahdi-mohamadian-b8a3ba22a | 📞 live:b4862eb14bf58ce0

*"The only way to do great work is to love what you do."*

## Education

### College of Electric and Computer Engineering, University of Tehran

Tehran, Iran

B.Sc. IN COMPUTER ENGINEERING (SOFTWARE ENGINEERING MAJOR)

Sep. 2018 - present

- Cum. GPA: 16.91/20 (3.2/4) Last two years
- Related Courses: Technical English(4/4) · Internet Engineering(4/4) · Software Engineering(4/4)  
Systems Analyzing and Designing(3.5/4) · Database(3.5/4) · E-learning(3.5/4) · Data Structures and Algorithms(3.5/4)
- Thesis topic: "Lab Administration & Student Supervision System"
- Thesis supervisor: Prof. F. Taghiyareh

### Diploma in Mathematics and Physics

Tehran, Iran

2014 - 2018

## Research Interests

- Software/Internet Engineering
- Artificial Intelligence (ML/DL/RL)
- Human-Computer Interaction
- Games and Gamification
- Security

## Research Experience

### (ILAB) Under the supervision of Prof. F. Taghiyareh

University of Tehran

THESIS

Apr 2023 - present

Managing a team of two, requirement analysis, and building a software for university's faculty to supervise students and manage their lab and personal pages. This software uses AI and best practices in software development.

### Under the supervision of Prof. F. Taghiyareh

University of Tehran

RESEARCH ASSISTANT

Aug 2023

Data analysing for research focused on enhancing attention rate data for academic videos using Pandas and NumPy.

## Teaching Experience

### UNIVERSITY OF TEHRAN ACM STUDENT CHAPTER

#### Front-end engineering Course Instructor & Supervisor (Volunteered) SUMMER OF CODE

Jul. 2022 - Oct. 2023

Instructed a Front-end Engineering course to 16 students during subsequent summers, teaching basic and advanced topics in HTML, CSS, and JavaScript, as well as an in-depth exploration of the React.Js framework and software architecture principles.

#### Digital Design Course Instructor (Volunteered) SUMMER OF CODE

Jul. 2021 - Oct. 2021

Instructed a course in digital design, teaching both basic and advanced topics within Adobe Photoshop.

### UNIVERSITY OF TEHRAN

#### Teaching Assistant INTERNET ENGINEERING, PROF. E. KHAMESPANAH

Jan. 2023 - present

Designed and graded course projects. Providing support for students and organized explanation sessions.

#### Teaching Assistant TECHNICAL ENGLISH, PROF. F. FATEMI

Sep. 2021 - Sep. 2022

Designed and graded homework and exams.

## Honors & Awards

2024 **Best Undergraduate Project Award**, University of Tehran Undergraduate Thesis Project Day

Tehran, Iran

2020-2022 **Member**, University of Tehran ACM Student Chapter

Tehran, Iran

## Work Experience

### Teamyab, Smart Job finding and hiring application

Tehran, Iran

**CO-FOUNDER AND TECHNICAL TEAM LEAD:** JAVASCRIPT|REACT.JS|NEXT.JS|NODE.JS|REDUX|CI/CD|GIT|MONGODB|SASS

Apr. 2022 - Present

- Mentoring and overseeing a team of six developers.
- Developing Teamyab V1 in React.Js and V2 in Next.Js using best practices and engineered architecture.
- Providing support and personalized road maps for professional development to the team.
- Organizing sprint planning and code review sessions.
- Leveraging AI to provide smart features to the application.

### Shopino, Instagram products search engine

Tehran, Iran

**SENIOR FRONT-END ENGINEER:** TYPESCRIPT|SVELTE|SVELTE KIT|GIT|SASS

Jun. 2023

- Learned Svelte and Svelte Kit from the scratch to meet the company's requirement.
- Re-write the application for better quality and performance.
- Develop and maintain new features.
- Collaborating in bug hunting and brain storm sessions.

### Digikala, Largest e-commerce and tech company in Iran

Tehran, Iran

**FRONT-END ENGINEER:** JAVASCRIPT|TYPESCRIPT|JAVASCRIPT|REACT.JS|REACT.TS|REDUX|JQUERY|TAILWIND|SASS|GIT

Sep. 2022 - Mar. 2023

- Worked beyond standard hours to develop features across product lines, particularly in Delivery and Fulfillment Center.
- Developed new pages and features for Digikala Printer Tools V2 and V3.
- Contributed in knowledge sharing and code review sessions.
- Collaborated effectively with cross-functional teams.

### Baamtest, Online tests and assessments for students

Tehran, Iran

**FREELANCE FRONT-END ENGINEER:** JAVASCRIPT|REACT.JS|GIT

Oct. 2021 - May. 2022

- Improved code quality, performance, and readability for the entire code base.
- Efficiently developed and maintained new features.
- Tested the web application for bugs and security concerns.

### Ganje, Smart lockers

Tehran, Iran

**JUNIOR FRONT-END ENGINEER:** JQUERY|REACT.JS|SASS|GIT|BOOTSTRAP|DJANGO

Aug. 2020 - Mar. 2021

- Improved code quality, performance, and readability.
- Efficiently developed and maintained new features for the Ganje web application.
- Learned Django for better understanding the back-end side.
- Created an admin panel from the scratch written in JQuery for data management.

## Professional Developements

### QToppia

FRONT-END (REACT.JS, SASS, REDUX, TAILWIND)|BACK-END (NODE.JS)|CI/CD|GIT|UI/UX DESIGN (FIGMA)|GPT-3.5

2022 - present

Personal project that brings the virtual world into everyday objects. It leverages QR codes as an interface, integrating digital features into non-digital items.

### QGames

UNSUPERVISED LEARNING|RECOMMENDATION SYSTEM|UI/UX DESIGN (FIGMA)|REACT.JS|NODE.JS|CI/CD|GIT

2023 - present

A passion project inspired by QToppia, designed to enhance the board game cafe experience. This app provides personalized game recommendations based on users' past games and preferences, allowing them to track their progress and achievements for a richer gaming journey.

### LevelUp

Tehran, Iran

REACT.JS|NODE.JS|UI/UX DESIGN (FIGMA)|CI/CD|GIT

2022

Introducing an innovative gamification model designed to enhance work quality, especially among developers. Our innovative approach transforms the traditional work environment into an engaging and rewarding experience.

### WITE

Tehran, Iran

JAVASCRIPT|GPT-3.5

2023

Live debugging tool for React.Js and Node.Js applications leveraging GPT-3.5 model to assess development process bugs and problems, achieving almost 20 percent increase in development speed.

### Supervised Machine Learning: Regression and Classification, Andrew Ng

Stanford University, Coursera

**AN ONLINE MACHINE LEARNING COURSE:** PYTHON, NUMPY, SCIKIT-LEARN, LINEAR REGRESSION, LOGISTIC REGRESSION

2023

### Advanced Learning Algorithms, Andrew Ng

Stanford University, Coursera

**AN ONLINE DEEP LEARNING COURSE:** NEURAL NETWORK, TENSORFLOW, MULTI-CLASS CLASSIFICATION, DECISION TREES

2023

**Google UX Design**

Google, Coursera

AN ONLINE UX DESIGN COURSE

2023

**Google Cybersecurity**

Google, Coursera

AN ONLINE CYBERSECURITY COURSE

2023

## Notable Academic Projects

**ILAB**

Undergraduate Thesis Project

INTELLIGENT RESEARCH LAB MANAGEMENT AND STUDENT SUPERVISION

Intelligent research lab management which aims to help any university's faculty to manage their research labs and supervise their students with ease. Providing beneficial solutions for professors and students needs and problems while working in a research lab.

**IEMDB**

Internet Engineering

AN IMDB REPLICA USING JAVA SPRING &amp; REACTJS

Developed by a team of two, a replica of the IMDb website. We used Java Spring for the back-end and ReactJS for the front-end. Users can explore movie information and create personalized wish lists. We have used tools like CI/CD pipelines, JDBC, JUnit, Github OAuth apps, etc.

**Super Mario**

Advanced Programming

A SUPER MARIO GAME CLONE

A Super Mario game clone written fully in C++.

**PONG**

Embedded systems

AN ANDROID SENSOR BASED PONG GAME

A pong game replica, written in Java Android. It uses device sensors to handle the movement of the rocket.

**Hiragana**

Artificial Intelligence

HIRAGANA LANGUAGE NEURAL NETWORK HAND-WRITTEN RECOGNIZER

A trained neural network to recognize Hiragana hand-written language using TensorFlow.

**Indiana jones**

Artificial Intelligence

INFORMED AND UNINFORMED SEARCH

Solving a puzzle using Informed and Uninformed search.

## Skills

	<b>Languages</b>	Persian: Native · English: IELTS Overall Band 7.5 · French: +1 year Duolingo streak
<b>Programming/Software Engineering</b>		JavaScript, TypeScript, C, C++, GoLang, Python, Java Clean Code, Object-Oriented & Functional programming, Agile Software Development Testing & Debugging, SSR & CSR, Data Structures & Algorithms, UML
<b>Web Development</b>		HTML, CSS, JavaScript, JQuery, Bootstrap, Tailwind, MUI, TypeScript, SASS ReactJs, ReactTs, NextJs, Svelte, Svelte Kit, Axios, Redux, Context, Twig JSON, NodeJs, DJANGO, SQL, MongoDB, ExpressJs, Spring, REST API, Responsive Web Design Socket Programming, Postman, Nginx
<b>AI/Machine Learning/Deep Learning</b>		Python, Jupyter Notebook, Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow
<b>Digital Design</b>		UI/UX, Figma, Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro
<b>Technologies/Operating Systems</b>		Git, Docker, Makefile · Linux, Windows