

Amir Mahdi Mohamadian

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"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: 16.11/20 (3.2/4)
- 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) · Artificial Intelligence(3.3/4) · Advanced Programming(3.1/4)
E-learning(3.5/4) · Data Structures(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 engineering/Empirical Software Engineering
- Web engineering/web applications
- Human-centred software engineering
- Human Computer Interaction
- Machine Learning/Deep Learning/Reinforcement Learning
- Computer Games

Teaching Experience

UNIVERSITY OF TEHRAN ACM STUDENT CHAPTER

Front-end engineering Course Supervisor SUMMER OF CODE

Jul. 2023 - Oct. 2023

Overseeing course quality assurance and the meticulous process of appointing a qualified course instructor, along with the selection of mentors for the program.

Front-end engineering Course Instructor SUMMER OF CODE

Jul. 2022 - Oct. 2022

Instructed a Front-end Engineering course to a cohort of 16 students during the summer, encompassing foundational topics in HTML, CSS, and JavaScript, as well as an in-depth exploration of the ReactJS framework and software architecture principles.

Digital Design Course Instructor SUMMER OF CODE

Jul. 2021 - Oct. 2021

Delivered a comprehensive course in digital design, encompassing both fundamental principles and advanced topics within Adobe Photoshop.

UNIVERSITY OF TEHRAN

Teaching Assistant INTERNET ENGINEERING, PROF. E. KHAMESPANAH

Jan. 2023 - present

Conceptualized and developed two pivotal projects for the course, accounting for 25% of the total course evaluation, inclusive of the provision of comprehensive test data, intricate UI designs, back-end APIs, and a comprehensive, step-by-step instructional guide. Additionally, actively assessed and evaluated student submissions, providing feedback and grading based on established criteria.

Teaching Assistant TECHNICAL ENGLISH, PROF. F. FATEMI

Sep. 2021 - Sep. 2022

Designed and graded homework. Graded exams.

Honors & Awards

2021 **Member**, University of Tehran ACM Student Chapter

Tehran, Iran

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

Tehran, Iran

2018 **Ranked Top 0.2% in Konkour**, National Organization of Educational Testing (NOET)

Tehran, Iran

Research Experience

Under the supervision of Prof. F. Taghiyareh

RESEARCH ASSISTANT

University of Tehran

Aug 2023

Collaborated on research focused on analyzing and enhancing attention rates for educational videos.

Professional Developements

Supervised Machine Learning: Regression and Classification, Andrew Ng

Stanford University, Coursera

AN ONLINE MACHINE LEARNING COURSE

2023

Learned to build & train supervised machine-learning models for prediction & binary classification tasks, including linear regression & logistic regression. I have also learned to Build machine learning models in Python using popular machine learning libraries NumPy & scikit-learn.

Advanced Learning Algorithms, Andrew Ng

Stanford University, Coursera

AN ONLINE DEEP LEARNING COURSE

2023

Learned to build and train a neural network with TensorFlow to perform multi-class classification, build and use decision trees and tree ensemble methods, including random forests and boosted trees, and also apply best practices for machine learning development so that my models generalize to data and tasks in the real world.

Unsupervised Learning, Recommenders, Reinforcement Learning, Andrew Ng

Stanford University, Coursera

AN ONLINE UNSUPERVISED LEARNING COURSE

2023

Learned to use unsupervised learning techniques: including clustering and anomaly detection, build a deep reinforcement learning model, and also build recommender systems with a collaborative filtering approach and a content-based deep learning method.

QToppia

DIGITAL CONVENIENCE FOR EVERYDAY ITEMS WITH QR-CODE-BASED INTERFACE WEB APP

2022 - present

QToppia is a personal passion project that brings the virtual world into everyday objects. This innovative concept leverages QR codes as an interface, seamlessly integrating digital features into non-digital items. For instance, take the 'Habit Making Mug,' a prime example of this technology. This unique mug is equipped with a QR code, enabling users to effortlessly track their habits, access a daily to-do list, and monitor their water intake. By cleverly using drink counts as indicators for specific habits, each sip becomes a step toward achieving personal goals. Also, it leverages Chat GPT features to provide a much smarter environment for the users.

QGames

PERSONALIZED BOARD-GAME RECOMMENDATIONS, PROGRESS TRACKING, AND REWARDS, ALL IN ONE APP!

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. Additionally, it introduces gamification with QPoints, rewarding engagement with discounts on future purchases, enhancing each visit. With our app, board game cafes can create memorable experiences, build customer loyalty, and elevate their business to new heights.

LevelUp

ELEVATE WORK QUALITY AND MOTIVATION AMONG WORKERS USING A GAMIFIED MODEL

Tehran, Iran

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.

Teamyab

CONNECTING JOB SEEKERS WITH THEIR DREAM CAREERS AND HELPING COMPANIES FIND THEIR IDEAL TALENT.

Tehran, Iran

2022 - present

A startup dedicated to transforming the job market for both job seekers and companies. Our platform empowers job seekers to assess their skills and preferences comprehensively, enabling them to find the perfect job match. We offer a dynamic evaluation system that goes beyond traditional resumes, ensuring a more accurate and rewarding job search experience. For companies, our platform provides a game-changing solution for talent acquisition. We identify candidates with the highest probability of aligning with the company's needs and culture, streamlining the hiring process, and fostering long-term success.

Work Experience

Teamyab

FRONT-END CHAPTER LEAD & SUPERVISOR

Tehran, Iran

Apr. 2022 - Present

- Effectively overseeing a team of six developers to address and fulfill the organization's intricate business requirements.
- Skillfully executing the development of the TeamYab web application utilizing ReactJS while adhering to industry best practices and standards.
- Providing steadfast support to the team and formulating a structured learning roadmap to facilitate the onboarding and professional growth of new developers.
- Strategically orchestrating sprints and quarterly planning sessions to align with and fulfill the dynamic business requirements and objectives.

Shopino

SENIOR FRONT-END ENGINEER

Tehran, Iran

Jul. 2023

- Undertook the challenge of acquiring proficiency in Svelte and Svelte Kit from the ground up, while meticulously adhering to industry best practices. This journey culminated in a comprehensive redesign and complete refactoring of their application, incorporating server-side rendering to enhance the overall user experience.

Digikala

FRONT-END ENGINEER

Tehran, Iran

Sep. 2022 - Mar. 2023

- Dedicatedly worked beyond standard hours to develop features across product lines, prioritizing project success and client satisfaction. Led user-facing feature development in Digikala's Operations division, particularly in Delivery and Fulfillment Center functions. Contributed to Digikala's growth by creating new pages and features for Digikala Printer Tools V2 and V3, using ReactJS and ReactTS for exceptional user experiences. Prioritized code efficiency and maintainability while crafting new elements for Phoenix PWA. Collaborated effectively with cross-functional teams, gaining a holistic understanding of project requirements. Demonstrated proficiency in Redux and context management for efficient state control and application scalability in React-based projects.

Baamtest

FREELANCE FRONT-END ENGINEER

Tehran, Iran

Oct. 2021 - May. 2022

- Actively contributed to the enhancement of the Baamtest website, a ReactJS-based platform, by introducing new features, pages, and components to expand its functionality and user experience.
- Leveraged advanced debugging techniques, optimization strategies, and code refinement practices to proactively address issues within the Baamtest website. This process not only boosted the site's performance but also improved the overall codebase by enhancing readability and promoting consistency in coding practices.

Ganje

JUNIOR FRONT-END ENGINEER

Tehran, Iran

Aug. 2021 - Mar. 2021

- Efficiently developed and maintained new features for Ganje's ReactJS web app, ensuring its relevance to evolving business needs. Improved code quality, performance, and readability while creating a tailored Admin Panel using Bootstrap and JQuery. Collaborated with cross-functional teams for insights and acquired expertise in Django, Bootstrap, and JQuery to optimize the user experience and implement interactive features.

Notable Academic Projects

IEMDB

AN IMDB REPLICA USING JAVA SPRING & REACTJS

Internet Engineering

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

A SUPER MARIO GAME CLONE

Advanced Programming

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

PONG

AN ANDROID SENSOR BASED PONG GAME

Embedded systems

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

Hiragana

HIRAGANA LANGUAGE NEURAL NETWORK HAND-WRITTEN RECOGNIZER

Artificial Intelligence

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

Indiana jones

INFORMED AND UNINFORMED SEARCH

Artificial Intelligence

Solving a puzzle using Informed and Uninformed search.

Skills

Languages

Persian: Native · English: Professional working proficiency · French: +1 year Duolingo streak

Programming/Software Engineering

JavaScript, TypeScript, C, C++, GoLang, Python, Java

Clean Code, Object-Oriented & Functional programming, Agile Software Development

Testing & Debugging, SSR & CSR, Data Structures & Algorithms, UML

Web Development

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, Ngix

AI/Machine Learning/Deep Learning

Python, Jupyter Notebook, Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow

Digital Design

UI/UX, Figma, Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro

Technologies/Operating Systems

Git, Docker, Makefile · Linux, Windows