

Maryam Kermanshahani

AMIRKABIR UNIVERSITY OF TECHNOLOGY (AUT) · TEHRAN POLYTECHNIQUE

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Fields of Interests

Interactive Technology and User Experience Development

HCI , UI / UX , AR / VR

Game development, Web Development, Application Development

Education

B.Sc in Computer Engineering

Amirkabir University of Technology

- GPA: 18.61/20 (3.93/4)

Tehran, Iran

Sep 2018 - May 2023

Mathematics and Physics High school Diploma

Rahe-Roshd High school

- GPA: 19.84/20

Tehran, Iran

2017

Work Experience

Researcher (Internship)

IPM

- Learning Machine learning algorithms including Classification, Regression, Clustering.
- Classification, Regression, Clustering performed on several datasets including: Ad Click Prediction, Bank Marketing, Heart Disease Health Indicators, Titanic, Online Retail UCI ML repo, Singapore Housing Development Board.
- Technical Skills:** Python (with NumPy, Matplotlib, Pandas, Scikit-learn, Seaborn), Git.
- Soft Skills:** Time Management, Presentation skills, Self studying.

Tehran, Iran

Summer 2022

Teaching Assistant in Physics for 11th grade students

Rahe-Roshd High school

- Syllabus: Electric Fields and Electric Circuit concepts

Tehran, Iran

Fall 2022

Curriculum consultant Assistant for 12th grade students

Rahe-Roshd High school

- Help to solve student problems in Math and Physics
- Planning curriculum

Tehran, Iran

Spring 2021, Spring 2022

Teaching Experience

Teaching Assistant Web Engineering

Instructor: Dr.Alvani

- Syllabus: Front-end, Back-end

Amirkabir University of Technology

Currently (Fall 2023)

Teaching Assistant in Principles and Application of Artificial Intelligence (3 terms)

Instructor: Dr.Javanmardi

- Syllabus: Agents, Search (Informed, Uninformed), CSP, Adversarial Search, MDP, RL, BayesNets

Amirkabir University of Technology

Fall 2022, Spring 2023, Currently

Business Model Development

Instructor: Dr.Ghanadpour

- Startups

Amirkabir University of Technology

Spring 2023

Teaching Assistant in Algorithm Design

Instructor: Dr.Shahreza

- Syllabus: Time complexity, Recursive Algorithms, Sorting, Graphs, DP, etc.

Amirkabir University of Technology

Spring 2023

Teaching Assistant in Data Structure and Algorithms

Instructor: Dr.Shahreza

- Syllabus: Time complexity, Tree, Search Algorithms, etc.

Amirkabir University of Technology

Spring 2023

Skills

Programming skills

Proficient: C, Java, Python (Pandas, NumPy, Scikit-learn. etc.), SQL, HTML, CSS, Javascript.

Intermediate: React, Kotlin

Familiar: Go, VHDL, Docker, Kubernetes, ROS.

Miscellaneous

Microsoft Office, Git, LaTeX, Windows, Familiar with Linux.

Other Skills

Passionate for learning, Time Management, Teamwork, Problem-solving, Playing guitar.

Selected Academic Projects

Interactive System for Facilitating Digital Story Illustration

Technical Skills: React, Tailwind CSS

- B.Sc Thesis project: Currently working on
- Instructor: Dr.Shahreza

Currently

Robotic

Technical Skills: Python, ROS

- 4 + 1 projects with ROS and python

[Link](#)

May 2023

Coin Price Monitoring

Technical Skills: Python, Docker, Kubernetes, PostgreSQL

- A Service that you can monitor digital coin prices (including front-end and back-end)

[Link](#)

May 2023

MapReduce on a dataset

Technical Skills: Python, Hadoop, Docker, Kubernetes

- Working with Hadoop

[Link](#)

May 2023

Job Execution Service

Technical Skills: Java(Spring framework), Git

- A Service that you can upload a file to it and it sends it to CodeX and send the result to your email

[Link](#)

March 2023

Search Engine

Technical Skills: Python, Git

- A search engine has both support both boolean and tf-idf based results

[Link](#)

Fall 2022

LetsPlay Game

Technical Skills: Python, Git

- Computational Intelligence project which is LetsPlay game that use genetic algorithm

[Link](#)

Fall 2022

Android-Projects

Technical Skills: Kotlin, Git

- Based on Android Basics course - Kotlin 4 different small projects including: Digital Card, Hafez divination, Simple book reader, Currency Converter

[Link](#)

Fall 2022

Book Reader

Technical Skills: Kotlin, Git

- A book reader written with Kotlin that has unique features like playing song, translator.

[Link](#)

Fall 2022

Introduction to Machine Learning

Technical Skills: Python (NumPy, Matplotlib, Pandas, Scikit-learn, Seaborn), Git, PowerPoint

- Classification, Regression, Clustering performed on some datasets.

[Link](#)

Summer 2022

Starwars Starships Information (with React)

Technical Skills: React, Javascript, HTML, CSS

- A program that shows Starwars movies based on requested information.

[Link](#)

Spring 2022

Clash Royale game

Technical Skills: Java (JavaFx)

- A simple form of Clash Royale Game (Front-end part): Start Menu, Choosing cards, click on screen to put character cards.

[Link](#)

Spring 2021

Mafia game

Technical Skills: Java

- A simple form of Mafia Game (without GUI, HTTP multi-thread client-server communication)

[Link](#)

Spring 2021

Publications

Interactive System for Facilitating Digital Story Illustration

WSRT conference by University of Toronto, Abu Dhabi ([Link](#))

- Designing a system for illustrating stories
- Program Committee: Professor Gerald Penn, Dr.Shirali-Shahreza

[Link](#)

9 Nov 2023

Achievements

2018 **Ranked among 1% of 144,000 students**, National University Entrance Exam of Iran

[Iran](#)

Language

IELTS Overall: 7.5 Listening: 8.5, Reading: 8, Writing: 6.5, Speaking: 7