

# Mohammad Naeimi

COMPUTER SOFTWARE ENGINEER · DATA SCIENTIST

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📱 MhmdNmi | 📺 MhmdNmi | 📺 MoHaMmAd Naeimi

“Live as if you were to die tomorrow. Learn as if you were to live forever.” -Mahatma Gandhi

## Education

### Master of Science (M.Sc.) in Computer Software Engineering

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY (AUT) - TEHRAN POLYTECHNIC

Sep. 2022 - PRESENT

- One of the Top Universities in IRAN: **U.S. News, Times, QS**
- Thesis: **Improving Music Recommender Systems Using Hybrid Methods** (In Progress)
- Under the Supervision of **Dr. Mostafa H. Chehreghani**

### Bachelor of Science (B.Sc.) in Computer Engineering

Isfahan, Iran

ISFAHAN UNIVERSITY OF TECHNOLOGY (IUT)

Sep. 2018 - Sep. 2022

- One of the Top Universities in IRAN: **U.S. News, Times**
- Thesis: **Converting Genome to Gene Expression in Cancer's Cells with CycleGAN**
- Under the Supervision of **Dr. Mohammad Hossein Manshaei & Dr. Mehran Safayani**

### High School Diploma in Natural Sciences Discipline

Kashan, Iran

NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS (NODET)

Sep. 2013 - Jun. 2017

## Research Interests

AI/Machine Learning      Deep Learning & Neural Networks  
Natural Language Processing      Recommender Systems  
Generative Adversarial Networks      Image Processing

## Certificates

### Deep Neural Networks with PyTorch

COURSERA - IBM

Online

July. 2023

### Applied Machine Learning in Python

COURSERA - UNIVERSITY OF MICHIGAN

Online

May. 2021

### Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

COURSERA - DEEPLARNING.AI

Online

Apr. 2021

### Project-oriented course in Web Development with PHP

QUERA COLLEGE (AN IRANIAN PROGRAMMING TRAINING PLATFORM)

Online

Mar. 2021

### Introduction to Artificial Intelligence (AI)

COURSERA - IBM

Online

Feb. 2021

### Advanced Python programming and Object-oriented thinking course

QUERA COLLEGE (AN IRANIAN PROGRAMMING TRAINING PLATFORM)

Online

Jan. 2019

## Languages

**Persian** ●●●●●●●●●● Native Proficiency  
**English** ●●●●●●●●○○ Full Professional Proficiency  
**French** ●●●○○○○○○○○ Elementary Proficiency

# Experience

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## Teaching Assistant of Web Search & Information Retrieval Course

Tehran, Iran

UNDER THE SUPERVISION OF **DR. SAEEDH MOMTAZI**,  
DEPARTMENT OF COMPUTER ENGINEERING,  
AMIRKABIR UNIVERSITY OF TECHNOLOGY (AUT) - TEHRAN POLYTECHNIC

Sep. 2023 - PRESENT

- Troubleshoot Students
- Design Assignments & Projects
- Grade Assignments & Projects

## Undergraduate Research Assistant

Isfahan, Iran

GAME THEORY AND MECHANISM DESIGN (GTMD) RESEARCH LABORATORY,  
UNDER SUPERVISION OF **DR. MOHAMMAD HOSSEIN MANSHAEE**,  
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Mar. 2022 - Sep. 2022

- Conduct Research, & Attend Project Meetings
- Program & Run AI Models
- Summarize Findings, & Prepare Progress Reports
- Result:

- **Converting Genome to Gene Expression in Cancer's Cells with CycleGAN**

In this project, two of the Cancer Genome Atlas (TCGA) project datasets have been used, the gene expression dataset and the somatic mutation dataset (SNP), which are converted to images by converting feature vectors into images using DeepInsight. After Implementing CycleGAN, we used images as training data.

## Back-End Web Developer

Kashan, Iran

**MATNO COMPANY**

May. 2021 - Sep. 2022

- Implement Back-end Projects
- Implement Web Scraper & Telegram Bot Projects
- Implement SQL & No-SQL Databases
- Use Web Development Tools:
  - NodeJS, Docker, GIT
  - Frameworks: NestJS, AdonisJS, ExpressJS, Django
  - Databases: PostgreSQL, MySQL, MongoDB, Redis

## Teaching Assistant of Operating Systems Course

Isfahan, Iran

UNDER THE SUPERVISION OF **DR. MOHAMMAD REZA HEIDARPOUR**,  
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Sep. 2021 - Jan. 2022

- Troubleshoot Students
- Design Assignments & Projects
- Grade Assignments & Projects

## Undergraduate Research Assistant

Isfahan, Iran

OPERATING SYSTEMS GROUP UNDER SUPERVISION OF **DR. MOHAMMAD REZA HEIDARPOUR**,  
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Mar. 2021 - Aug. 2021

- Conduct Research, & Attend Project Meetings
- Read Documentations, & Run Simulations on the Simulator
- Summarize Findings, & Prepare Progress Reports
- Result:

- **Porting FreeRTOS on Raspberry Pi 3B** (FreeRTOS Porting)

This project intends to launch the real-time operating system, FreeRTOS, on Raspberry Pi 3B. After running the test scenarios, we collect the results table and investigate the processing status of this operating system. Calculating the processing power of the combination of the FreeRTOS operating system and Raspberry Pi hardware can be used in various applications.

## Teaching Assistant of Design & Analysis of Algorithms Course (Two Classes)

Isfahan, Iran

UNDER THE SUPERVISION OF **DR. ZEINAB MALEKI**,  
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Mar. 2021 - Jul. 2021

- Troubleshoot Students
- Design Assignments & Projects
- Grade Assignments & Projects

## Teaching Assistant of Basic Programming Course

Isfahan, Iran

UNDER THE SUPERVISION OF **DR. ELHAM MAHMOUDZADEH**,  
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Sep. 2019 - Jan. 2020

- Teach Programming
- Troubleshoot Students
- Design Assignments & Projects
- Grade Assignments & Projects

## Skills

<b>Python</b>	●●●●●●●●○	<b>C/C++</b>	●●●●●●●●○
<b>JavaScript</b>	●●●●●●●○	<b>SQL</b>	●●●●●●●○
<b>Knowledge</b>	Algorithms, AI/Machine Learning, Deep Learning, Recommender Systems, NLP		
<b>Programming</b>	C/C++, Python, JavaScript, TypeScript, SQL, PHP		
<b>Frameworks/Libraries</b>	TensorFlow, Keras, Scikit-Learn, PyTorch, NLTK, NumPy, pandas, Matplotlib		
<b>Web development</b>	NodeJS, AdonisJS, NestJS, Django		
<b>Databases</b>	PostgreSQL, MySQL, Microsoft SQL Server, Metabase, Redis, MongoDB		
<b>Technologies</b>	GIT, Docker, <del>TeX</del>		
<b>Operating Systems</b>	Windows, Linux (Ubuntu, Kali)		
<b>Soft Skills</b>	Teamwork, Problem-Solving, Responsibility, Communication, Flexibility, Creativity		

## Relevant Courses

### Graduate Courses || Amirkabir University of Technology (AUT) - Tehran Polytechnic

<b>Big Data Analytics</b>	4/4	Spring 2023
<b>Natural Language Processing</b>	4/4	Spring 2023
<b>Advanced Algorithms</b>	4/4	Spring 2023
<b>Cloud Computing</b>	4/4	Spring 2023
<b>Web Search and Information Retrieval</b>	4/4	Fall 2022

### Undergraduate Courses || Isfahan University of Technology (IUT)

<b>IT Strategic Management</b>	4/4	Spring 2022
<b>Software Engineering II</b>	4/4	Spring 2022
<b>Computer Networks II</b>	4/4	Fall 2021
<b>Machine Learning Fundamentals</b>	4/4	Fall 2021
<b>IT Project Management &amp; Control</b>	4/4	Fall 2021
<b>Artificial Intelligence</b>	4/4	Spring 2021
<b>Software Engineering I</b>	4/4	Spring 2021
<b>Databases I</b>	4/4	Spring 2021
<b>Compiler</b>	4/4	Spring 2021
<b>Design &amp; Analysis of Algorithms</b>	4/4	Fall 2020
<b>Operating System Principles</b>	4/4	Fall 2020
<b>Microprocessor</b>	4/4	Fall 2020
<b>Especial English for Computer Sciences</b>	4/4	Fall 2020
<b>Computer Networks I</b>	4/4	Spring 2020
<b>Computer Architecture &amp; Organization</b>	4/4	Spring 2020
<b>Data Structures</b>	4/4	Spring 2020
<b>Theory of Formal Languages</b>	4/4	Spring 2020
<b>Advanced Programming &amp; Lab</b>	4/4	Fall 2019

## Hobbies & Interests

Keeping up with the latest Developments in Technology			Learning a New Skill	
Watching Movies	Listening to Music	Going to the Gym	Cycling	Swimming