

# 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
- Thesis: **Improving Music Recommender Systems Using Hybrid Methods** (In Progress)
- Under 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
- Thesis: **Converting Genome to Gene Expression in Cancer's Cells with CycleGAN**
- Under Supervision of **Dr. Mohammad Hossein Manshaei & Dr. Mehran Safayani**

### High School Diploma in Natural Sciences

Kashan, Iran

NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS (NODET)

Sep. 2013 - Jun. 2017

## Research Interests

AI/Machine Learning	Recommender Systems
Natural Language Processing	Algorithms & Data Structures
Generative Adversarial Networks	Deep Learning & Neural Networks

## Certificates

### Deep Neural Networks with PyTorch

Online

COURSERA - IBM

July. 2023

### Applied Machine Learning in Python

Online

COURSERA - UNIVERSITY OF MICHIGAN

May. 2021

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

Online

COURSERA - DEEPLARNING.AI

Apr. 2021

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

Online

QUERA COLLEGE (AN IRANIAN PROGRAMMING TRAINING PLATFORM)

Mar. 2021

### Introduction to Artificial Intelligence (AI)

Online

COURSERA - IBM

Feb. 2021

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

Online

QUERA COLLEGE (AN IRANIAN PROGRAMMING TRAINING PLATFORM)

Jan. 2019

## Languages

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

# Experience

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## Undergraduate Research Assistant

Isfahan, Iran

GAME THEORY AND MECHANISM DESIGN (GTMD) RESEARCH LABORATORY,

UNDER SUPERVISION OF **DR. MOHAMMAD HOSSEIN MANSHAEI**,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

Mar. 2022 - Sep. 2022

ISFAHAN UNIVERSITY OF TECHNOLOGY

- Programming & Run AI Models
- Conduct Research & Attend Project Meetings
- 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, somatic mutation dataset (SNP) and the gene expression dataset, both of which are converted to images by a method of converting feature vectors into images, called 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
- Dockerize Existing Projects
- Implement Telegram Bot
- Implement Web Scraper Project
- 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 SUPERVISION OF **DR. MOHAMMAD REZA HEIDARPOUR**,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

Sep. 2021 - Jan. 2022

ISFAHAN UNIVERSITY OF TECHNOLOGY

- Teach Offline
- Troubleshoot Students
- Answer Questions
- Design Homeworks & Projects
- Grade Homeworks & Projects

## Undergraduate Research Assistant

Isfahan, Iran

OPERATING SYSTEMS GROUP UNDER SUPERVISION OF **DR. MOHAMMAD REZA HEIDARPOUR**,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

Mar. 2021 - Aug. 2021

ISFAHAN UNIVERSITY OF TECHNOLOGY

- Read Documents & Run Simulations on the Simulator
- Conduct Research & Attend Project Meetings
- 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 SUPERVISION OF **DR. ZEINAB MALEKI**,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

Mar. 2021 - Jul. 2021

ISFAHAN UNIVERSITY OF TECHNOLOGY

- Teach
- Troubleshoot Students
- Answer Questions
- Design Homeworks
- Grade Homeworks & Tasks

## Teaching Assistant of Basic Programming Course

Isfahan, Iran

UNDER SUPERVISION OF **DR. ELHAM MAHMOUDZADEH**,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

Sep. 2019 - Jan. 2020

ISFAHAN UNIVERSITY OF TECHNOLOGY

- Teach Programming
- Troubleshoot Students
- Design Tasks
- Grade Tasks

## 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:

<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:

<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