

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

- 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

- 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

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

Teaching Assistant of Web Search & Information Retrieval Course

Tehran, Iran

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

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

Sep. 2023 - PRESENT

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 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 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 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

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

Relevant Courses

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

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

Undergraduate Courses || Isfahan University of Technology (IUT)

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