Mohammad **Naeimi**

COMPUTER SOFTWARE ENGINEER · DATA SCIENTIST

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in 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	IR/Recommender Systems
Generative Adversarial Networks	Computational Biology

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 - DEEPLEARNING.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

Work Experience

Back-End Web Developer *Kashan, Iran*

MATNO COMPANY *May. 2021 - Sep. 2022*

- Implement Back-end Projects
- Implement Web Scrapper & 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

Academic Experience

Teaching Assistant of Web Search & Information Retrieval Course *Tehran, Iran*

UNDER THE SUPERVISION OF DR. SAEEDEH MOMTAZI,

DEPARTMENT OF COMPUTER ENGINEERING, *Sep. 2023 - PRESENT*

AMIRKABIR UNIVERSITY OF TECHNOLOGY (AUT) - TEHRAN POLYTECHNIC

- 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 MANSHAEI,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, *Mar. 2022 - Sep. 2022*

ISFAHAN UNIVERSITY OF TECHNOLOGY

- 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.

Teaching Assistant of Operating Systems Course *Isfahan, Iran*

UNDER THE SUPERVISION OF DR. MOHAMMAD REZA HEIDARPOUR,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, *Sep. 2021 - Jan. 2022*

ISFAHAN UNIVERSITY OF TECHNOLOGY

- 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, *Mar. 2021 - Aug. 2021*

ISFAHAN UNIVERSITY OF TECHNOLOGY

- 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, *Mar. 2021 - Jul. 2021*

ISFAHAN UNIVERSITY OF TECHNOLOGY

- 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, *Sep. 2019 - Jan. 2020*

ISFAHAN UNIVERSITY OF TECHNOLOGY

- 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 Managment	*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
Theory of Formal Languages	*4/4*	Spring 2020

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