Mohammad **Naeimi**

COMPUTER ENGINEERING STUDENT · BACK-END DEVELOPER

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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

B.Sc. in Computer Engineering (in Progress)   *Isfahan, IRAN*

ISFAHAN UNIVERSITY OF TECHNOLOGY (IUT)   *Sep. 2018 - Expected in spring 2022*

- One of the Top Universities in IRAN

- Thesis Title: (in progress)
  Translation of Genome Variation (SNP) Profile to Gene Expression Profile and vice versa by Deep Generative Models

- Under Supervision of Dr. Mohammad Hossein Manshaei

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   **Deep Learning & Neural Networks**

Computational Biology   **Recommender Systems**

Natural Language Processing   **Computer Vision**

Academic Projects

Notice: The code of these projects can be accessed on my GitHub, <u>HERE</u>.

10/2021	**Simple K-Means Clustering,** A Simple K-means Clustering from scratch	*Python (Notebook)*
10/2021	**Simple Gradient Descent,** GD, Stochastic GD, and Mini-batch GD from scratch	*Python (Notebook)*
07/2021	**Simple Compiler,** A Simple Compiler for a C-like Programming Language	*flex/bison*
06/2021	**Value Iteration NChain-v0,** Find Optimal Policy for NChain-v0	*Python*
06/2021	**Simple Blockchain,** A Program to calculate nonces	*Python (Notebook)*
05/2021	**Elementary Artificial Neural Network(ANN),** Building a Neural Network from scratch	*Python (Notebook)*
05/2021	**Simple Recommender System,** A Simple Recommender System using LightFM	*Python (Notebook)*
05/2021	**Hiden Markov Model,** HMM Calculator	*Python*
04/2021	**A* Search,** An Implementation of A* Search to solve a problem	*C++*
04/2021	**Max-Sat, Simulated Anealing,** A Simple Max-Sat Solver using Simulated Anealing	*C++*
07/2020	**Web Servers' Port Scanner,** Like Nmap	*Python*
07/2020	**Packet Sniffer and Analyzer,** Like Wireshark	*Python*
06/2020	**Disease Diagnosis by B-tree and Hash Table,** Data Structure Project	*C++*
01/2020	**Real Estate Advisor System,** GUI by Qt	*C++/Qt*
06/2019	**Wholesale Food Sales System,** C/C++ Programming	*C/C++*
05/2019	**Well formed formula (WFF) Equivalence Checker and Truth table,** Discrete Mathematics	*C/C++*

Seminars & Workshops

Amirkabir Artificial Intelligence Student Summit (AAISS)   *Online*

AMIRKABIR UNIVERSITY OF TECHNOLOGY   *Aug.,Sep. 2021*

The 6th Winter Seminar Series in advanced topics of computer science and engineering   *Online*

SHARIF UNIVERSITY OF TECHNOLOGY   *Dec. 2020, Jan. 2021*

Experience

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

Back-End Web Developer *Kashan, Iran*

MATNO COMPANY *May. 2021 - PRESENT*

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

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 & Summarize Findings
- Read Documents
- Run Simulations on the Simulator
- Attend Project Meetings
- 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

Languages

Persian	Native Proficiency
English	Full Professional Proficiency
French	Elementary Proficiency

Language Exams

Graduate Record Examinations (GRE)
Educational Testing Service (ETS)

Tehran, Iran

Dec 9th, 2021

- Overall Score: 312
  - Quantitative Reasoning: **168**/170 (Percentile: 91%)
  - Verbal Reasoning: **146**/170 (Percentile: 28%)
  - Analytical Writing: **3.0**/6.0

Test of English as a Foreign Language (TOEFL)
Educational Testing Service (ETS)

Tehran, Iran

Oct 23rd, 2021

- Overall Score: 96
  - Reading: **23**
  - Listening: **26**
  - Speaking: **22**
  - Writing: **25**

Certificates

Applied Machine Learning in Python
Coursera - University of Michigan

Online

May. 2021

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
Coursera - DeepLearning.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

Relevant Courses

Artificial Intelligence	*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	*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

Skills

Python ●●●●●●●●○ **C/C++** ●●●●●●●●○

JavaScript ●●●●●●●○○ **SQL** ●●●●●●○○

Programming	C/C++, Python, JavaScript, SQL, PHP, Bash Script, Verilog
Frameworks & Environments	NodeJS, ExpressJS, AdonisJS, Django, TensorFlow, Scikit-Learn, Keras, NumPy
Technologies	Docker, GIT, PostgreSQL, MySQL, Redis, MongoDB, Office, LaTeX, Wireshark, XAMPP, Qt
Knowledge	Data Structures, Algorithms, AI/Machine Learning, Deep Learning, Generative Models
Operating Systems	⊞ Windows, 🐧 Linux (Ubuntu, Kali)
Soft Skills	Teamwork, Problem-Solving, Responsibility, Communication, Flexibility, Creativity

References

Dr. Mohammad Hossein Manshaei   *Tucson, AZ, USA*

RESEARCH ASSISTANT PROFESSOR AT UNIVERSITY OF ARIZONA

- Email: manshaei@arizona.edu
- Phone : +1 520-621-1050
- Web Site: Personal Homepage

Dr. Mohammad Reza Heidarpour   *Isfahan, Iran*

ASSISTANT PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

- Email: mrheidar@iut.ac.ir
- Phone : +98 313 3915359
- Web Site: Personal Web Site

Dr. Zeinab Maleki   *Isfahan, Iran*

ASSISTANT PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

- Email: zmaleki@iut.ac.ir
- Phone : +98 313 3919057
- Web Site: Complex Networks & Data Analysis Lab

Hobbies & Interests

| Keeping up with the latest developments in technology | Learning a new skill |

| Movies | Listening to Music | Reading Books | Going to the gym | Cycling | Swimming |