

Mohammad Naeimi

COMPUTER ENGINEERING STUDENT · BACK-END DEVELOPER

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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

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, [HERE](#).

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	Hidden Markov Model , HMM Calculator	Python
04/2021	A* Search , An Implementation of A* Search to solve a problem	C++
04/2021	Max-Sat, Simulated Annealing , A Simple Max-Sat Solver using Simulated Annealing	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 - PRESENT

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 Scraper 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: Not Reported

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 - 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

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

Isfahan, Iran

RESEARCH ASSISTANT PROFESSOR IN AT UNIVERSITY OF ARIZONA

- Email: manshaei@arizona.edu
- Phone : 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

Listening to Music

Movies

Reading Books

Going to the gym

Cycling

Swimming