Mohammad **Naeimi**

Computer Engineering Student · Back-end Developer

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"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 2022*

- One of the Top Universities in IRAN
- Thesis Title:
  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	**Supervised & Unsupervised Learning**
Computational Biology	**Deep Learning & Neural Networks**
Natural Language Processing	**Recommender Systems**
Algorithms & Data Structures	**Computer Vision**

Research Project

FreeRTOS Porting   *Isfahan, Iran*

Porting FreeRTOS on Raspberry Pi 3B   *Mar. 2021 - Jun. 2021*

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.

Academic Projects

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

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++*

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

- Teaching Offline
- Troubleshooting Students
- Answering Questions
- Designing Homework & Projects
- Grading 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
- Reading Documents
- Run Simulations on the Simulator
- Attend Project Meetings
- Prepare Progress Reports

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

- Teaching
- Troubleshooting Students
- Answering Questions
- Designing Homework
- Grading 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

- Teaching Programming
- Troubleshooting Students
- Designing Tasks
- Grading Tasks

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*

Languages

Persian	Native Proficiency		
English	Full Professional Proficiency	**TOEFL:** To Be Taken On October 23, 2021.	**GRE:** To Be Taken Soon.
French	Elementary Proficiency		

Skills

Programming	C/C++, Python, JavaScript, PHP, SQL, 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

Certificates

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*

References

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

Dr. Elham Mahmoudzadeh *Isfahan, Iran*

Assistant Professor at Isfahan University of Technology

- Email: mahmoudzadeh@iut.ac.ir
- Phone : +98 313 3919064

Hobbies & Interests

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

Building and fixing computers	Going to the gym	Cycling	Swimming

Getting lost in a good Book	Feeling the music	Living the Movies