

# 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

- Under Supervision of Dr. Hossein Falsafain
- One of the most prestigious universities in Iran

### 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

Recommender Systems

Algorithms & Data Structures

## 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, [HERE](#).**

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

## Languages

**Persian** Native Proficiency

**English** Full Professional Proficiency

**French** Elementary Proficiency

**TOEFL:** To Be Taken On October 23, 2021.

**GRE:** To Be Taken Soon.

## Experience

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### 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 - PRESENT

- 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 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,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Mar. 2021 - Aug. 2021

- 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,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Mar. 2021 - Jul. 2021

- 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,  
ISFAHAN UNIVERSITY OF TECHNOLOGY

Sep. 2019 - Jan. 2020

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

## Seminars & Workshops

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### 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

## Skills

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

## 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

## References

### Dr. Mohammad Reza Heidarpour

ASSISTANT PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

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

Isfahan, Iran

### Dr. Zeinab Maleki

ASSISTANT PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

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

Isfahan, Iran

### Dr. Elham Mahmoudzadeh

ASSISTANT PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

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

Isfahan, Iran

## 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