

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, [HERE](#).

10/2021	Simple K-Means Clustering , A Simple K-means Clustering from scratch	Python
10/2021	Simple Gradient Descent , GD, Stochastic GD, and Mini-batch GD from scratch	Python
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++

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

- Implementing Back-end Projects
- Dockerizing Existing Projects
- Implementing Telegram Bot
- Implementing Web Scraper Project
- Implementing SQL & No-SQL Databases
- Using 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

- Conducting Research & Summarize Findings
- Reading Documents
- Running Simulations on the Simulator
- Attending Project Meetings
- Preparing 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
French Elementary Proficiency

Language Exams

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

Graduate Record Examinations (GRE)

EDUCATIONAL TESTING SERVICE (ETS)

to be taken Soon

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

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

References

Dr. Mohammad Hossein Manshaei

Isfahan, Iran

ASSOCIATE PROFESSOR AT ISFAHAN UNIVERSITY OF TECHNOLOGY

- Email: manshaei@cc.iut.ac.ir
- Phone : +98 313 391-9067
- 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

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