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**
Recommender Systems	**Deep Learning & Neural Networks**
Natural Language Processing	**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	**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

UNDER SUPERVISION OF DR. MOHAMMAD REZA HEIDARPOUR,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

ISFAHAN UNIVERSITY OF TECHNOLOGY

Isfahan, Iran

Sep. 2021 - PRESENT

- Teaching Offline
- Troubleshooting Students
- Answering Questions
- Designing Homework & Projects
- Grading Homeworks & Projects

Back-End Web Developer

MATNO COMPANY

Kashan, Iran

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

OPERATING SYSTEMS GROUP UNDER SUPERVISION OF DR. MOHAMMAD REZA HEIDARPOUR,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

ISFAHAN UNIVERSITY OF TECHNOLOGY

Isfahan, Iran

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)

UNDER SUPERVISION OF DR. ZEINAB MALEKI,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

ISFAHAN UNIVERSITY OF TECHNOLOGY

Isfahan, Iran

Mar. 2021 - Jul. 2021

- Teaching
- Troubleshooting Students
- Answering Questions
- Designing Homework
- Grading Homeworks & Tasks

Teaching Assistant of Basic Programming Course

UNDER SUPERVISION OF DR. ELHAM MAHMOUDZADEH,

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING,

ISFAHAN UNIVERSITY OF TECHNOLOGY

Isfahan, Iran

Sep. 2019 - Jan. 2020

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

Languages

Persian   Native Proficiency
English   Full Professional Proficiency
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
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 and 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