

MOHAMMAD MAHDI AIN MOGHASSEMI

Tehran, Iran

+98-933-754-7766



EDUCATION

K.N. Toosi University of Technology

Sep. 2018 – Jun 2023

Bachelor of Computer Engineering

Tehran, Iran

- GPA: 15.58/20 (3.09/4), LastTwoYears: (3.34/4)

Selected Courses:

System Analysis & Design (20/20), Software Engineering (18/20), Computer Structure & Language (18.55/20), Algorithmic Graph Theory (16.5/20), Algorithm Design (18/20), Logic Circuits (17.75/20), Principles of Compiler Design (20/20), Microprocessors & Assembly Language (19/20), Computer Networks II (19/20), Project (20/20)

RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Computer Vision
- Deep learning

TEACHING EXPERIENCE

Lead Teaching Assistant at K.N.Toosi University of Technology

- In charge of holding workshops, creating and grading assignments, and the final project.
- Coordinated and managed the grading process among other TAs.

Course: Assembly and Machine Language

Sep 2022 – Feb 2023

- **Instructor:** Prof. Behrooz Nasihatkon

Course: Microprocessors & Assembly Language

Sep 2021 – Feb 2022

- **Instructor:** Prof. Zahra Shirmohammadi

Teaching Assistant at K.N.Toosi University of Technology

- Assisted students with mathematical and programming problems.
- Held workshops, created and graded assignments and final projects, and produced tutorials.

Course: Fundamentals of Computer & Programming

Sep 2022 – Feb 2023

- **Instructor:** Prof. Hamed Khanmirza

Course: Assembly and Machine Language

Sep 2020 – Feb 2021

- **Instructor:** Prof. Behrooz Nasihatkon

WORK EXPERIENCE

Pazh Tax Company

Apr 2024 – Present

Front-End Developer

Tehran, Iran

- Key contributor to the development of a platform for issuing financial statements and submitting them to the tax office from the company's inception
- Led front-end architecture and design using React and Next.js, ensuring a responsive and user-friendly interface
- **Technical Skills:** React, Next.js, Jest, Material UI, Tailwind, MySQL, GitLab, Jira

3Tex exchange

Nov 2023 – Apr 2024

Front-End Developer

Tehran, Iran

- Developed a crypto price prediction bot using neural networks
- Led front-end development of a responsive web application, focusing on identifying and fixing design and functional bugs using JavaScript, React, and Next.js.
- **Technical Skills:** React, Next.js, Cypress, Material UI, Ant, MySQL, TensorFlow, Scikit-learn, GitLab, Jira

Soroush Educational Complex

Jun 2023 – Present

Full-Stack Developer

Tehran, Iran

- Developed a platform for managing student transcripts and reports using Django, Flask, React, and Next.js
- Streamlined student and teacher progress tracking to reduce paper usage
- Created a Telegram bot for automated delivery of report cards and documents
- **Technical Skills:** React, Next.js, Material UI, Jest, Django, TelegramBotAPI, Pandas, PostgreSQL, GitHub, Jira

Karin Payesh(Internship)

Jun 2022 – Oct 2022

Front End Developer Intern

Tehran, Iran

- Assisted in development of the front end of a responsive web application using JavaScript, React.
- **Technical Skills:** HTML, CSS, JS, React, Redux, GitLab

Projects

HomeLand (Thesis) | *Python, Django, React*

- Developed a responsive hotel booking website integrating Django and React.
- Implemented front-end and back-end functionalities with real-time data exchange using Axios.

3Tex Crypto Exchange Platform | *Next, React, Material UI, Ant, Cypress*

- Developed a platform for buying, selling, and trading cryptocurrencies with support and prediction bots.
- Implemented admin functionalities for managing the exchange.

Azmoonemeyar | *Next, React, Material UI, Cypress*

- Built a management platform for an educational complex, including a Telegram bot for communication and document handling.
- Features include report generation and parent communication.

Pazh Tax Company Website | *Next, React, Material UI, Tailwind, Cypress*

- Developed a website serving as an intermediary between the Iranian tax administration and the public.
- Facilitates financial statement submissions and provides tax assistance. Currently under development.

Handwritten Digit Recognition | *Python, TensorFlow, Keras*

- Developed a neural network to recognize handwritten digits (0-9) using TensorFlow and Keras.
- End-to-end demonstration from dataset loading to model training and prediction.

Virus Recognition Using Decision Trees | *Python, scikit-learn*

- Designed a Decision Tree-based model for virus classification using scikit-learn.

Huffman Encoding and Decoding | *Java*

- Implemented Huffman encoding and decoding algorithms in Java with object-oriented practices.

Othello AI | *C*

- Developed an AI for playing Othello, focusing on strategic move evaluation.
- Demonstrated consistent strategic decisions through multiple game tests.

Technical Skills

Languages: C, C++, Python, Java, PHP, JavaScript, HTML, CSS, SQL, VHDL, Verilog, SystemC, MATLAB, Octave, L^AT_EX, x86 Assembly, AVR Assembly

Frameworks & Libraries: React, Redux, Next.js, Flask, Django, Material UI, Bootstrap, Tailwind CSS, Axios, React Hook Form, Yup, TensorFlow, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Telethon, Keras, NetworkX

Databases: PostgreSQL, MySQL

Tools & Technologies: Linux, Git (GitHub, GitLab), Jira, REST, Postman, Jupyter, Google Colab

Areas of Expertise: Web Development, Machine Learning (ML), Computer Vision

Workshops & Self-Studies

Supervised Machine Learning: Regression and Classification & Advanced Learning Algorithms **2023**

stanford - DeepLearning.AI

Coursera

Languages

Persian: Native

English: IELTS, Overall Band Score: 6.5 (Listening: 6.5, Reading: 7.0, Writing: 6, Speaking: 6.5)

References

Behrooz Nasihatkon

nasihatkon@kntu.ac.ir

- Assistant Professor, Computer Engineering Department, K. N. Toosi University of Technology, Tehran, Iran

Fatemeh Rezaei

frezaei@kntu.ac.ir

- Assistant Professor, Computer Engineering Department, K. N. Toosi University of Technology, Tehran, Iran

Hamed Khanmirza

h.khanmirza@kntu.ac.ir

- Assistant Professor, Computer Engineering Department, K. N. Toosi University of Technology, Tehran, Iran
- Manager of KNTU HPC Center