Sepideh Tajik

CONTACT INFORMATION

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■ Phone number: (+98)921-346-4409

EDUCATION

M.Sc. in Information Technology

Sep 2021 – Sep 2024

Amirkabir University of Technology (Tehran Polytechnique)

Tehran, Iran

Overall GPA: 17.41/20 (87.05/100)

Important Courses:

■ Advanced data base 19/20 ■ Data analytics 17.5/20

■ Data mining 18.75/20 ■ Digital image processing 17.25/20

Final project:

Machine Learning for an optimal IOT

control in smart homes

B.Sc. in Computer Engineering

Sep 2016 - July 2021

Khajeh Nasir University of Technology, Tehran, Iran

Final project:

Implementing an E-learning PWA with interactive approach

Grade achieved: 19.5/20

High School Diploma of Mathematics at Farzanegan (Sampad)

Sep 2013 – July 2017

PROJECTS

Learning Management System (LMS)

Sep 2024 - Nov 2024

Developed a scalable LMS using **ASP.NET Core** and **React**, featuring role-based dashboards for teachers and students, efficient database querying with **EF Core**, and a dynamic enrollment approval system. Enhanced performance with optimized LINQ queries and secure JWT authentication.

Network intrusion detection

Feb. 2022 - May 2022

Implemented a network intrusion detection project using deep neural networks in Tensorflow environment and manipulated the parameters to optimize the results

Course: Data Analysis And Extraction

Wind turbine damage detection

Feb. 2022 – May 2022

Implemented an AI model to detect damages on the surface of wind turbines using YOLO v4 model

Course: Data Analysis And Extraction

Nudity detection project

March 2022 - May 2022

Implemented a simplified NSFW detection model using OpenCV

Course: Digital Image Processing

AES algorithm implementation

Oct. 2021 - Dec. 2021

Learned to work with Xilinx ISE and implemented the AES algorithm using this application

Fraud detection with graph analytics

Sep. 2020 - Nov. 2020

Implemented a fraud detection algorithm using NETWORKX and Graphx libraries in Spark environment

Course: Big Data

Fake news detection

March 2020 - May 2020

Studied the BERT model and implemented a simple fake news detector using BERT Model

Course: Artificial Intelligence

Banking system database

Nov. 2019 - Dec 2019

Designed a database model for a banking system using Microsoft Visio and implemented it in SQL

Course: Design Principles of Data Base

WORK EXPERIENCE

Internship, Nasirbp

Feb. 2021 – May 2021

Worked on advancing medical image analysis

English Instructor, Mokalemeh English Language Institute

Dec. 2020 - Jan. 2021

Taught the Top Notch books

TEACHING EXPERIENCE

Teaching Assistant, Khajeh Nasir University Of Technology

2nd semester of 2020 – 2021

Course: Artificial Intelligence

Graded students' assignments, and prepared booklets and assignments weekly

Teaching Assistant, Khajeh Nasir University Of Technology

1st semester of 2020 - 2021

Course: Artificial Intelligence

Graded students' assignments, and prepared booklets and assignments weekly

PUBLICATION

Sepideh Tajik, Alireza Rezvanian, (Under Preparation). "An Improved Cellular Edge Detection Technique Integrating Cellular Learning Automata And Conventional Methods."

LANGUAGES

English

IELTS August 2023

Overall: 7

Reading: 7 | Listening: 7.5 | Speaking: 7 | Writing: 7

French

Intermediate Level

German

Elementary Level

TECHNICAL SKILLS

Backend Development: ASP.NET Core, C#, RESTful API Development, Microservices, SignalR, MediatR, Clean Architecture, Dependency Injection (DI), Identity Server, JWT Authentication

Databases: SQL Server, PostgreSQL, Sqlite, Database Design, Query Optimization

Frontend Development: HTML/CSS, Vue.js, React.js, Axios

AI & Machine Learning: Python, TensorFlow, scikit-learn, Computer Vision, NLP, Data Preprocessing, OpenCV

Programming Languages: C#, Python, JavaScript

Other Tools: Git, Swagger/OpenAPI, Redis, RabbitMQ

CERTIFICATE AND COURSES

Deep Learning Specialization – Coursera (Andrew Ng, DeepLearning.AI)

Develop Web Applications with ASP.NET Core – Microsoft Learn

SQL for Data Science – Coursera (UC Davis)

Data Science and Machine Learning Bootcamp with Python – Udemy

REFERENCES

Dr. Saeed Sharifian Khortoomi
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 Department of Electrical Engineering
 Amirkabir University of Technology
 sharifian s@aut.ac.ir

Dr. Amir Khorsandi
 Assistant Professor
 Department of Electrical Engineering
 Amirkabir University of Technology
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Dr. Alireza Rezvanian
 Assistant Professor

Department of Computer Engineering University of Science and Culture rezavian@usc.ac.ir

PROFESSIONAL SUMMARY

I'm a curious and motivated developer with a Master's degree in IT. I enjoy tackling new challenges and finding creative solutions to problems. I'm always eager to learn new technologies and improve my skills, and I love working on projects that push me to grow. Whether it's building scalable APIs or exploring machine learning technichs to real-life problems, I'm passionate about creating solutions that make a difference.