Nazanin Rezaee Qotb Abadi

UNDERGRADUATE COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY STUDENT

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Education _____

Bachelor of Science in Computer Engineering and Information Technology

Shiraz, Iran

SHIRAZ UNIVERSITY OF TECHNOLOGY

Sep. 2021 - PRESENT

· GPA: 18.02/20.00 (3.88/4)

HIGH SCHOOL Diploma - SPECIALIZED IN EXPERIMENTAL SCIENCE

Shiraz, Iran

NATIONAL ORGANIZATION FOR DEVELOPMENT OF EXCEPTIONAL TALENTS (NODET)

2017 - 2020

• GPA: 19.42/20.00 (4/4)

Research Interest _____

- Artificial Intelligence
- Deep Learning & Machine Learning
- Computer Vision
- Image Processing
- Software Engineering

Honors & Awards

2021-	Ranked 2 nd among 30+ Students, Department of Computer Engineering & Information	Shiraz , Iran
Present	Technology, Shiraz University of Technology	Siliuz, liuli
2021	Ranked within the top 2% among 126000+ participants, in the National University Entrance	Shiraz, Iran
	Exam for Bachelor's degree - Math and Physics	
2013	$\textbf{Admitted}, \ in the entry exam to NODET High Schools (National Organization for Development of a contract of the entry example of$	Shiraz, Iran
	Exceptional Talents)	

Technical Skills

PROGRAMMING LANGUAGES

 $\label{proficient Python, C, C++, C\#, Java, HTML, CSS, JavaScript} Proficient \ \textbf{Python, C, C++, C\#, Java, HTML, CSS, JavaScript}, \\$

Familiar SQL, Assembly Languages, MATLAB, Kotlin, VHDL, ET_FX,

ENGINEERING SOFTWARE

Proficient Figma, Adobe Photoshop, Adobe XD,

Familiar Proteus, CodeVision AVR,

GENERAL SOFTWARE

Proficient Microsoft Office,

Research Experience _____

Hand Gesture Recognition - Deep Learning

Oct. 2024 - Present

RESEARCH ASSISTANT UNDER SUPERVISION DR. ALI SADEGHI

Shiraz University of Technology

- Defining the Scope and Objective of the project and Gather a Dataset for training our model.
- Developing a deep learning-based hand gesture recognition system enabling hands-free control of a smart TV. The system recognizes five distinct gestures performed in front of a webcam that each mapped to specific TV commands.
- Tools & Technologies to use: Python, TensorFlow, Keras, OpenCV, CNN, LSTM, data augmentation, real-time processing.

Work Experience

HAMPA Energy Engineering and Design Company (HEDCO)

Shiraz, Iran

INTERNED AT SOFTWARE DEVELOPMENT DEPARTMENT

Summer 2024

 Learned Front-End programming languages including HTML, CSS, and JavaScript and also designed a user interface for HTMS with Figma.

Council of Computer Engineering Student Scientific Association, Shiraz University of Technology

Shiraz, Iran

DEPUTY SECRETARY

Jun. 2023 - Jun. 2024

- · Held university open day event.
- · Prepared student and faculty meetings.
- Prepared referral day ceremony event for new students.
- Holding courses and contests related to the computer engineering field.
- Holding ICPC (International Collegiate Programming Contest) for SUTECH (Shiraz University of Technology) students.

VORNA Company Shiraz, Iran

WORKED AS UI/UX DESIGNER

Aug. 2023 - Feb. 2024

- Designed user interface (UI) for some websites with **Figma**.
- Designed posters, brochures, visit cards with Figma and Adobe Photoshop.
- Please visit **Dribbble** to see some of my works.

Academic Projects _____

Neural Networks for Handwritten Digit Recognition

Course Project - Fall 2024

ADVANCED LEARNING ALGORITHMS COURSE

Python

Implemented Binary Classification and also Multiclass Classification.

In Binary classification, I used a neural network to recognize the hand-written digits zero and one. And in Multiclass classification, I also used a neural network but to recognize the hand-written digits 0-9.

Logistic Regression Course Project - Fall 2024

SUPERVISED MACHINE LEARNING: REGRESSION AND CLASSIFICATION COURSE

Python

 $Implementation \ of \ logistic \ regression \ and \ applied \ it \ to \ two \ different \ datasets.$

Learned about Logistic Regression, and Regularized Logistic Regression.

Beauty Salon DataBase Management

Course Project - Spring 2024

DATABASE LAB, SUPERVISED BY ALI SAMANIPOUR

C# - SQL

Implementation of a Beauty Salon DataBase Management System that the database codes implemented in **SQL** and the user interface implemented in **C# - Windows Form Application**.

Burgess Algorithm Course Project - Fall 2023

IT Project Management Course, SUPERVISED BY Dr. Ali Sadeghi

Python

Implementation of Burgess Algorithm that is considered as one of the famous methods for resources leveling in costruction industry in **Python**.

STRATEGO Game Course Project - Spring 2022

ADVANCED PROGRAMMING COURCE, SUPERVISED BY DR. PIROOZ SHAMSINEJAD

Java

Implementation of the **STRATEGO** Game in Java. Utilized key programming concepts such as: Object-Oriented Programming (OOP) and Data structures (arrays, lists) for game state management. Also implemented game features, including Player move validation and game rules enforcement.

SUDOKU Game

Course Project - Winter 2022

FUNDAMENTALS OF PROGRAMMING COURSE, SUPERVISED BY DR. PIROOZ SHAMSINEJAD

C++

Implementation of Soudoku Game in **C++**. Gained experience with core programming concepts including Control structures (loops, conditionals) and Functions.

Teaching Experience

Fall 2023 Data Structure, Holding Tutorial Class, Problem solving, Grading assignments.

Dr.Rasool Esmaeilyfard Dr. Pirooz

Fundamentals of Programming, Holding Tutorial Class, Problem solving, Grading quizzes and Fall 2022 assignments.

Shamsinejad

Courses ____

Deep Learning Specialization

Present

Online (Coursera), Lecturer: Andrew Ng

Machine Learning Specialization

Fall 2024

Online (Coursera), Lecturer: Andrew Ng

Mathematics for Machine Learning and Data Science Specialization

Summer 2024

Online (Coursera), Lecturer: Luis Serrano

Artificial Intelligence Course

Feb. 2024 - Aug. 2024

ONLINE, HOLDING BY IAAA (IRAN ANNUAL AI AWARD)

Python Course Summer 2023

SHIRAZ UNIVERSITY OF TECHNOLOGY, LECTURER: OMID RAJAEI

Languages _____

English Persian

FLUENT NATIVE

The TOEFL iBT test: To be taken on DEC. 18, 2024

References _____

1.Dr. Pirooz Shamsinejad

ASSISTANT PROFESSOR

Department of Computer Engineering and Information Technology Shiraz University of Technology

Contact Information

email: p.shamsinejad@sutech.ac.ir Phone(Work): (+98) 71 3735-2808

2.Dr. Ali Sadeghi

ASSISTANT PROFESSOR

Department of Computer Engineering and Information Technology Shiraz University of Technology

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email: sadeghi@sutech.ac.ir Phone(Work): (+98) 71 3726-1391

3.Dr. Rasool Esmaeilyfard

ASSISTANT PROFESSOR

Department of Computer Engineering and Information Technology Shiraz University of Technology

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