azanin Rezaee Qotb Abadi

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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	Jiliuz, Iiuli
2021	Ranked within the top 2% among 126000+ participants, in the National University Entrance	Shiraz, Iran
2021	Exam for Bachelor's degree - Math and Physics	Siliuz, IIuli
2013	Admitted, in the entry exam to NODET High Schools (National Organization for Development of a contract of the entry example of	Shiraz. Iran
2013	Exceptional Talents)	Silituz, ituri

Technical Skills

PROGRAMMING LANGUAGES

Proficient Python, C, C++, C#, Java, HTML, CSS, JavaScript,

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

ENGINEERING SOFTWARE

Proficient Figma, Adobe Photoshop, Adobe XD,

Familiar Proteus, CodeVision AVR,

GENERAL SOFTWARE

Proficient Microsoft Office.

Research Experience _____

Real-Time People Counting System - Deep Learning

Oct. 2024 - Present

RESEARCH ASSISTANT UNDER SUPERVISION DR. ALI SADEGHI

Shiraz University of Technology

- · Developing a deep learning-based system using YOLOv8 to estimate the number of people in images with real-time detection capa-
- The system addresses challenges like crowd density and varying lighting conditions for applications.
- · Tools & Technologies used: Python, PyTorch, YOLOv8, OpenCV, data annotation, hyperparameter tuning, 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

Aua. 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 ___

Cat Classifier Model Course Project - Fall 2024

DEEP LEARNING SPECIALIZATION COURSE

Pvthon

Designed and implemented a cat image classification model using two approaches:

- 1. Logistic Regression with a Neural Network Mindset: Developed a binary classifier for cat recognition using logistic regression. And implemented cost functions, gradient descent, and backpropagation from scratch.
- $2.\ Deep\ Neural\ Network\ for\ Image\ Classification:\ Built\ a\ multi-layer\ neural\ network\ with\ activation\ functions\ like\ ReLU\ and\ sigmoid.$

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.

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

Fall 2022

Fundamentals of Programming, Holding Tutorial Class, Problem solving, Grading quizzes and 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)

Contact Information

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)

Contact Information

email: esmaeily@sutech.ac.ir Phone(Work): (+98) 71 3735-2604