

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 - Sep. 2025

- GPA: 18.22/20.00 (3.8/4)

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
- Machine Learning
- Deep Learning
- Computer Vision
- Image Processing
- Software Engineering

Honors & Awards

2021-2025 **Ranked 2nd among 30+ Students**, Department of Computer Engineering & Information Technology, Shiraz University of Technology

Shiraz, Iran

2021 **Ranked within the top 2% among 126000+ participants**, in the National University Entrance Exam for Bachelor's degree - Math and Physics

Shiraz, Iran

2013 **Admitted**, in the entry exam to NODET High Schools (National Organization for Development of Exceptional Talents)

Shiraz, Iran

Technical Skills

PROGRAMMING LANGUAGES

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

Familiar **SQL, Assembly Languages, MATLAB, Kotlin, VHDL, L^AT_EX**,

ENGINEERING SOFTWARE

Proficient **Figma, Adobe Photoshop, Adobe XD**,

Familiar **Proteus, CodeVision AVR**,

GENERAL SOFTWARE

Proficient **Microsoft Office, Git/GitHub**,

Familiar **Trello, Asana, Slack**,

Research Experience

Real-Time People Counting System - Deep Learning

Oct. 2024 - Apr. 2025

RESEARCH ASSISTANT UNDER THE SUPERVISION OF DR. ALI SADEGH

Shiraz University of Technology

- Developing a deep learning-based system using YOLOv8 to estimate the number of people in images with real-time detection capability.
- 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

INTERNE AT SOFTWARE DEVELOPMENT DEPARTMENT

Summer 2024

- Developed expertise in Front-End technologies, including **HTML**, **CSS**, and **JavaScript**, for building interactive web components.
- Designed a user-friendly interface for the HEDCO Total Engineering Management Information System (HTMS) using **Figma**, focusing on accessibility and efficiency.
- Conducted research on UI/UX best practices for engineering management systems, analyzing workflow optimization techniques to improve user experience.
- Regularly researched industry methodologies (e.g., Scrum and Agile) and presented findings to colleagues, enhancing team knowledge and efficiency.
- Analyzed company-wide operations to identify opportunities for AI-driven enhancements, recommending tools to optimize functionality and decision-making.

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.

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

Shiraz, Iran

DEPUTY SECRETARY

Jun. 2023 - Jun. 2024

- Held university open day event and also prepared student and faculty meetings.
- Holding courses and contests related to the computer engineering field, for instance, holding intramural **ICPC** (International Collegiate Programming Contest).

Data Structure Teaching Assistant

Shiraz, Iran

UNDER THE SUPERVISION OF DR.RASOOL ESMAEILYFARD

Fall 2023

- Holding Tutorial Class, Problem solving, Grading assignments.

Fundamentals of Programming Teaching Assistant

Shiraz, Iran

UNDER THE SUPERVISION OF DR. PIROOZ SHAMSINEJAD

Fall 2022

- Holding Tutorial Class, Problem solving, Grading quizzes and assignments.

Academic Projects

Cat Classifier Model

Course Project - Fall 2024

DEEP LEARNING SPECIALIZATION COURSE

Python

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, a neural network was used to recognize the handwritten digits 0 and 1. In Multiclass Classification, a neural network was also utilized to recognize the handwritten 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 construction industry in **Python**.

STRATEGO Game

Course Project - Spring 2022

ADVANCED PROGRAMMING COURSE, 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.

Courses

Oct. 2024 **Deep Learning Specialization**, Online (Coursera), Lecturer: Andrew Ng

Sept. 2024 **Machine Learning Specialization**, Online (Coursera), Lecturer: Andrew Ng

Aug. 2024 **Mathematics for ML and Data Science Specialization**, Online (Coursera), Lecturer: Luis Serrano

Feb. - Sept. 2024 **Artificial Intelligence Course**, Online, Holding by IAAA (Iran Annual AI Award)

Certificate

Summer 2023 **Python Course**, Shiraz University of Technology, Lecturer: Omid Rajaei

Certificate

Languages

English

FLUENT

The TOEFL iBT test: To be taken on Nov. 20. 2025

Persian

NATIVE

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

2. Dr. Ali Sadeghi

ASSISTANT PROFESSOR

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(Shiraz University of Technology)

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3. Dr. Rasool Esmaeilyfard

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