

Milad Samimifar

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EDUCATION

Sharif University of Technology

Master of Science in Electrical Engineering, Digital Systems

Tehran, Iran

Fall 2021 – Fall 2023

- Thesis: Design and implementation of sound-based IoT systems for environment control and monitoring.

Sharif University of Technology

Bachelor of Science in Electrical Engineering, Digital Systems

Tehran, Iran

Fall 2017 – Spring 2021

- Thesis: Design and implementation of object tracking algorithms.

PROFESSIONAL EXPERIENCE

Software Developer

Jan 2024 – Present

Sepanta Healthcare, Tehran Province, Iran

Full-time

- Developed real-time software components for an ultrasound medical device using modern C++ (C++14/17) and Qt framework.
- Practiced clean code principles and design patterns to enhance maintainability and testability.
- Tools used: C++, Qt Creator, Git, Linux

SELECTED PROJECTS

A Multi-Objective Approach for Practical Portfolio Optimization Problem | *Python*

- Use NSGA-II and SMS-EMOA algorithms to solve the mean-variance model on NASDAQ data in the convex optimization 2 course. [Github](#)

Joint Object Detection and Depth Estimation in Image | *Python, TensorFlow, Git*

- Object detection method that can simultaneously estimate the positions and depth of the objects from images (Based on NYU-Depth V2 dataset) in the deep learning course. [Github](#)

Speech Recognition on the Free Spoken Digit Dataset | *Python*

- Spoken digit recognition with machine learning methods in the statistical learning course. [Github](#)

TECHNICAL SKILLS

Languages: C++, Python, C, Shell, $\text{\LaTeX}$

Frameworks/Tools: Qt, Git, CUDA, TensorFlow, PyTorch, MQTT, OpenCV

Software/Platforms: Qt Creator, Linux, Windows

Concepts: Object-Oriented Programming, Multithreading, Clean Code, Software Architecture

LANGUAGES

English: Professional working proficiency

Persian: Native

HONORS

- Ranked 27th among 20,000 participants in the National Entrance Exam for Masters, Iran, 2021
- Ranked 42nd among 150,000 participants in the National Entrance Exam for Bachelors, Iran, 2017