

# Nona Ghazizadeh

Tehran, Iran

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## Education

### Sharif University of Technology

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

- **Overall GPA:** 3.86/4.0 (18.73/20)
- **Major GPA:** 3.92/4.0 (18.9/20)
- **Last year GPA:** 4.0/4.0 (19.74/20)

Tehran, Iran

September 2019 - PRESENT

### Mehraein High School

DIPLOMA OF MATHEMATICS

- **Overall GPA:** 4.0/4.0 (19.85/20)

Tehran, Iran

September 2016 - July 2019

## Research Experience

### ISE lab

RESEARCH ASSISTANT

- Data science in software engineering and Natural Language Processing

Tehran, Iran

August 2022 - present

## Publications

### Bug Issues Ranker Based on Frequently Used Programming Method

DR. HEYDARNOORI

Find related methods in big and qualified projects in github to each issue based on fasttext, TF-IDF and transformers model and sort the issues by their methods with call graph. By calculating frequently used methods we assign higher priority to issues that are related two most frequently used methods.

ACL 2023, ACE 2023

In progress

## Industrial Experience

### Yektanet

FRONT-END DEVELOPER

- Designing and implementing numerous web pages for Najva email marketing and esigning and implementing a full Najva SMS marketing and Implementing some UI components for usual use in other teams

Tehran, Iran

April 2021 - September 2021

## Teaching Assistant Experience

### Advanced Information Retrieval

DR. SOLEYMANI

- Designing projects and Correcting projects

Tehran, Iran

Spring 2023

### Compiler Design

DR. GHASSEM SANI

- Designing assignments and Correcting assignments and Correcting projects

Tehran, Iran

Fall 2022, Spring 2023

### Advanced Information Retrieval

DR. BEIGY

- Designing assignments and Correcting assignments

Tehran, Iran

Fall 2022

### Linear Algebra

DR. RABIEE & DR. RAMEZANI

- Designing assignments and Correcting assignments and Hold a TA class

Tehran, Iran

Spring 2022

### Basics of Electrical and Electronic Circuits

DR. HEMMATYAR

- Designing assignments and Correcting assignments

Tehran, Iran

Fall 2021

### Basics of Electrical and Electronic Circuits

DR. KOOHI

- Designing quizzes and Correcting quizzes, midterm and final exams

Tehran, Iran

Fall 2021

### Engineering Probability and Statistics

DR. SHARIFI-ZARCHI

- Designing assignments and Correcting assignments

Tehran, Iran

Fall 2021

### Advanced Programming

DR. SALMANI

- Designing project and Correcting project

Tehran, Iran

Fall 2020

## Languages

**Persian** Native

**English** Advanced

## Skills

**Programming Languages** Python, Java, JavaScript, C, C++, Latex

**Frameworks** React, Vue, GraphQL

**Databases** PostgreSQL, Redis

**Operating Systems** Ubuntu, MacOS, Windows

**Other Technologies** Git, Numpy, Pytorch, Nginx, Pandas, SciPy, matplotlib, Jupyter Notebook, Tensor, NLTK

**Soft Skills** Teamwork, Flexibility, Responsibility, Self-Learning, Desire to learn, Problem solving

## Research Interests

- Natural language processing and information retrieval
- Software Engineering for AI-Based Systems
- Artificial Intelligence
- Data Analysis

## Relevant Courses

### Linear Algebra

Dr. Rabiee & Dr. Ramezani

20/20

### Compiler Design

Dr. Sani

20/20

### Artificial Intelligence

Dr. Abdi Hejrandoost

20/20

### Computer Architecture

Dr. Sarbazi Azad

20/20

### Database Design

Dr. Varmazyar

19.6/20

### System Analysis & Design

Dr. Mahdi Mostafazadeh

19/20

### Computer Simulation

Dr. Safaei

19.7/20

### Machine Learning

Dr. Sharifi-Zarchi

20/20

### Web Programming

Dr. Jafarnezhad

19.5/20

### Machine Learning Specialization

Andrew Ng

### Information Retrieval

Dr. Asgari

20/20

# Academic Projects

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## News retrieval search engine

### SOURCE CODE

A search engine for crawled persian news using Boolean, TF-IDF, Fasttext, Transformers and Elasticsearch methods and use classification, clustering and link analysis for persian news. It contains back-end and front-end sections which can deploy on server with pleasing UI.

## Personal info hider

### SOURCE CODE

A program to hide personal info, it helps to protect sensitive information. We use datasets that we crawled for persian language, Parsi-io, regex and POS tagger to find out different personal information parts.

## Image captioning

### SOURCE CODE

A model to generate caption for flicker images using RNN. A pre-trained CNN is used to extract visual features from the input image, and a language model based on RNNs, such as LSTM, is trained to generate a natural language description of the image.

## Issue and method relationship

### SOURCE CODE

A models based on fasttext and TF-IDF methods to find related methods to each issue on five software projects and prioritize them by mostly frequently used methods.

## Content management

### SOURCE CODE

A content management system which allows users to save videos, images, audios, documents and share them with each other using. It contains back-end and front-end sections which can deploy on server with pleasing UI.