

## RESEARCH INTERESTS

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- Mining Software Repositories
- Data Science for Software Engineering
- Applied Machine Learning
- Natural Language Processing
- Recommender Systems

## EDUCATION

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### Sharif University of Technology (SUT)

Tehran, Iran

M.Sc. in Software Engineering

September 2019–September 2021 (Expected)

GPA: 20/20 (4/4)

- **Thesis:** “Categorization of Software Repositories in Version Control Systems”
- **Supervisors:** Dr. Abbas Heydarnoori , Maliheh Izadi 

### Khaje Naisr Toosi University of Technology (KNTU)

Tehran, Iran

B.Sc. in Electrical Engineering, Electronics

September 2010–February 2016

GPA: 15.11/20 , Average GPA of Department: 15.03/20

### Farzanegan Shariyar High School

Shahriyar, Tehran, Iran



**NODET (National Organization for Development of Exceptional Talents)**

September 2006–June 2010

Mathematics and Physics

## SCHOLARSHIPS AND AWARDS

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- Ranked 1<sup>st</sup> of class 2019 among all M.Sc. students in Sharif University of Technology. 2020
- Admitted to M.Sc. in Software Engineering program in Sharif University of Technology, the **best** university of Iran according to the QS 2021 Ranking.  2019
- Ranked 12<sup>th</sup> among approximately 25,000 participants in Iranian University Entrance Exam for Masters degree in Software Engineering. 2019
- Ranked within the top 50% of the graduating class in Khaje Nasir Toosi University of Technology. 2016
- Admitted to Khaje Nasir Toosi University of Technology, one of the top 20 universities (16<sup>th</sup>) in Iran according to QS 2021 Ranking  which requires the students to be among top 1% in Iranian University Entrance Exam to get admitted to this university. 2010
- Ranked within the top 0.5% among more than 200,000 participants in Iranian University Entrance Exam for Bachelors degree. 2010
- Ranked 1<sup>st</sup> of the graduating class in Farzanegan Shahriyar High School. 2010
- Received full scholarship from Farzanegan Shahriyar High School, NODET (Tuition Waiver). 2009



## SELECTED COURSES

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- **Data Mining:** 20/20
- **Advanced Topics in Software Engineering (Data Science in Software Engineering):** 20/20
- **Software Evolution:** 20/20
- **Software Testing:** 20/20

## OTHER COURSES AND CERTIFICATES

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- **Mining Massive Datasets** 
- **Machine Learning** 
- **CCNP Routing & Switching**
- **CCNA Routing & Switching**

## TEACHING EXPERIENCE

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### **Sharif University of Technology**

Teaching Assistant, Semantic Web (Graduate Course)

Tehran, Iran

September 2020–present

### **Sharif University of Technology**

Teaching Assistant, Database Design and Analysis (Undergraduate Course)

Tehran, Iran

February 2020–July 2020

### **Danesh English Institute**

English Instructor (advanced and upper-intermediate level)

Andishe, Tehran, Iran

September 2015–August 2016

### **Ghalamchi Educational Institute**

Tutor

Andishe, Tehran, Iran

September 2013–August 2015

- High school Mathematics and Geometry for Iranian University Entrance Exam preparation
- High school Physics for Iranian University Entrance Exam preparation
- English for Iranian University Entrance Exam preparation

### **Khaje Naisr Toosi University of Technology**

Teaching Assistant, Differential Equations (Undergraduate Course)

Tehran, Iran

February 2012–July 2012

### **Parsland English Institute**

English Instructor (intermediate and beginner level)

Andishe, Tehran, Iran

January 2008–June 2009

## PUBLICATIONS

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- A Comprehensive Inventory of Open-source Software Repositories based on Fine-grained Featured Topics
  - In progress for JSS

## RESEARCH EXPERIENCE

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- A Review on Software Repository Classification, Similar Software Repository Detection, and Software Repository Search Engines
- A Review on Software Repository Tagging and Tag Recommendation in Software Information Sites
- A Review on User Review Analysis in Mobile App Stores
- A Review on Patterns for Self-Adaptive Systems

## PROFESSIONAL EXPERIENCE

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### **Shabake Gostar Shahriyar**

NOC Engineer

Tehran, Iran

April 2016–June 2019

## PROJECTS

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- **User Review Analysis for Release Planning:**
  - A study on user reviews of Duolingo and Rosetta Stone Android applications to extract the bugs reported and the features requested.
- **Sentiment Analysis on User Reviews:**
  - A supervised classification of textual data.
- **A Collaborative Recommender System:**
  - Development of a recommender system that combined item-based and user-based collaborative filtering to recommend music tracks to users.
- **Market Segmentation**
  - Customer behavior analysis on data from Shabake Gostar Shahriyar ISP Company to identify root cause for customer churn.
- **A Search Engine for Persian Text**
  - Development of a similarity-detection system for Persian Wikipedia pages based on various data representation models and similarity metrics in PySpark.
- **An Ontology of Movies**
  - Development of a comprehensive queryable ontology about top 250 movies of all times.

## COMPUTER SKILLS

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- **Programming:** Python, GNU Octave, MATLAB
- **Web:** Django, HTML, CSS, JavaScript, Bootstrap
- **Tools and Libraries:** PySpark, NumPy, Pandas, Scikit Learn, SciPy
- **DBMS:** PostgreSQL, MySQL, Neo4j
- **OS:** Ubuntu, Windows
- **VCS:** Git
- **Word Processor:**  $\text{\LaTeX}$





## LANGUAGES

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- **Persian:** Mother tongue
- **English:** Fluent
  - **TOEFL:** 111 (R:28 , L:29 , S:25 , W:29)
  - **GRE:** To be taken at November 16, 2020

## REFERENCES

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| • <b>Maliheh Izadi</b>          | • <b>Morteza Amini</b>     |
| – <b>Email:</b> maliheh.izadi@sharif.edu   | – <b>Email:</b> amini@sharif.edu  |
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