

Mahtab Nejati

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EDUCATION

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

RESEARCH INTERESTS

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



SCHOLARSHIPS AND AWARDS

- Ranked 1st 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 12th 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 (16th) 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 1st of the graduating class in Farzanegan Shahriyar High School. 2010
- Received full scholarship from Farzanegan Shahriyar High School, NODET (Tuition Waiver). 2009

SELECTED COURSES

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

OTHER COURSES AND CERTIFICATES

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

TEACHING EXPERIENCE

Sharif University of Technology Teaching Assistant, Data Science in Software Engineering (Graduate Course)	Tehran, Iran September 2020–present
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
Ghulamchi Educational Institute Tutor <ul style="list-style-type: none">– 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	Andishe, Tehran, Iran September 2013–August 2015
Khaje Nair 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

- A Comprehensive Inventory of Open-source Software Repositories based on Fine-grained Featured Topics
 - To be submitted to Journal of Systems and Software (JSS) December 2020

RESEARCH EXPERIENCE

- 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

Shabake Gostar Shahriyar

NOC Engineer

Tehran, Iran

April 2016–June 2019

- Resolved issues related to the networks, servers, and wireless links
- Managed VIP Customer Services Department
- Led wireless link installment projects

PROJECTS

• 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

- **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:** \LaTeX

LANGUAGES

- **Persian:** Mother tongue
- **English:** Fluent
 - **TOEFL:** 111 (R:28 , L:29 , S:25 , W:29)

REFERENCES

• Dr. Abbas Heydarnoori

- **Email:** heydarnoori@sharif.edu
- **Phone:** (+98)-21-66166648

• Maliheh Izadi

- **Email:** maliheh.izadi@sharif.edu
- **Phone:** -

• Dr. Raman Ramsin

- **Email:** ramsin@sharif.edu
- **Phone:** (+98)-21-66166620

• Morteza Amini

- **Email:** amini@sharif.edu
- **Phone:** (+98)-21-6616 6656