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# VAHID ETEMADI

<http://vahidetemadi.github.io>

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## RESEARCH INTERESTS

Software engineering, Software socio-technical analysis, Empirical software engineering, Artificial intelligence, Search-based software engineering, Machine learning

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## EDUCATION

**Shiraz University of Technology, Shiraz, Iran**

*Aug 2014 - Sep 2021*

Ph.D. in Information Technology, Software Engineering and Distributed Systems Lab, Department of Computer Science and IT.

Thesis: Software Change Management as A Service: A Self-Adaptive Approach

**K. N. Toosi University of Technology (KNTU), Tehran, Iran**

*Aug 2012 - Aug 2014*

M.Sc. in Management Information Systems, Data Mining Group, Department of Industrial Engineering.

Thesis: Improving Recommendation Systems in Social Networks Using Profile Mining

**Shiraz University of Technology, Shiraz, Iran**

*Aug 2008 - Aug 2012*

B.Sc. in Information Technology Engineering, Department of Computer Engineering and IT.

Thesis: Content and Service Distribution over Cloud Computing Environments

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## PROFESSIONAL EXPERIENCE

**Graduate Researcher at Distributed Systems Lab, Shiraz University of Technology Shiraz, Iran**

*Aug 2014 - Sep 2021*

Making software maintenance more automated through focusing on bug locating and task assignment. Providing a scheduling-driven approach to minimize the *Time* and the *Cost* in bug fixing assignments during maintaining software.

Involving *Knowledge Diffusion* as the key objective during fixing task assignment for making development team more robust to developer churn (increasing sustainability).

**Internship in Open Source Software Engineering at Pajouhan Matin, Shiraz Technological Park, Shiraz, Iran**

*Aug 2019 - Dec 2019*

Contributing to open source software such as mxGraph to make it a fit for BPMN systems.

Requirement modeling in UML notation using Visual Paradigm tools.

Adopting software design patterns for machine learning applications.

**Visiting Researcher at Universidad Rey Juan Carlos, Madrid, Spain**

*Apr 2018 - Dec 2018*

Visiting LibreSoft lab at the Department of Telecommunication Engineering under the supervision of Prof. Gregorio Robles and Prof. Jesús M. González-Barahona.

**Software Engineer at AsreTelecom, Shiraz Branch, Shiraz, Iran**

*Sep 2015 - Oct 2017*

Developing and maintaining MS SQL server databases, implementing the main process which take place inside ASAN Internet Service Provider company, designing and implementing reporting dashboards.

**Graduate Researcher at IE-Data Mining Group K. N. Toosi University of Technology, Tehran, Iran**

*Sep 2012 - Sep 2014*

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Working on a sample network retrieved from *Facebook.com* to propose a hybrid friend recommendation system.

## PUBLICATIONS

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**Etemadi, V.**, Gonzalez-Barahona, Jesus M., Robles, G., 2021. *I want to invest in an OSS project: Shall I hire Insiders or Outsiders?*, Accepted for presentation in BENEVOL 2021

**Etemadi, V.**, Bushehrian, O. and Robles, G., 2021. *Task assignment to counter the effect of developer turnover in software maintenance: A knowledge diffusion model*. Information and Software Technology, 143, p.106786.

**Etemadi, V.**, Bushehrian, O., Akbari, R. and Robles, G., 2021. *A scheduling-driven approach to efficiently assign bug fixing tasks to developers*. Journal of Systems and Software, 178, p.110967.

**Etemadi, V.**, Bushehrian, O. and Akbari, R.: *Association rule mining for finding usability problem patterns: A case study on StackOverflow*, In 2017 International Symposium on Computer Science and Software Engineering Conference (CSSE), pp. 24-29. IEEE, 2017

Emami, M., **Etemadi, V.**, Bushehrian, O. *A component-based content distribution network architecture in cloud environments*. In 2015 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI), pp. 330-335. IEEE, 2015.

## REVIEWER/SERVICES

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MSR hackaton (PC member) 2021

SQJO: Software Quality Journal, Springer 2021

ISTE: Iranian Journal of Science and Technology, Transactions of Electrical Engineering 2019

## TEACHING

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**Lecturer**, Faculty of Electronic Learning, Shiraz University, Shiraz, Iran 2019  
Course: Advanced Programming in JAVA

**Teaching Assistant**, Shiraz University of Technology, Shiraz, Iran 2019  
Course: Computer Architecture

**Instructor**, Shiraz University of Technology, Shiraz, Iran 2016 - 2017  
Course: Database Systems Lab

**Lecturer**, Faculty of Electronic Learning, Shiraz University, Shiraz, Iran 2016 - 2017  
Course: Multimedia Systems

**Teaching Assistant**, Shiraz University of Technology, Shiraz, Iran 2015 - 2016  
Course: Software Engineering

## AWARDS AND HONORS

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Student volunteer at 43th International Conference on Software Engineering (ICSE), Madrid, Spain 2021

Graduate Research Assistant, Shiraz University of Technology 2014 - 2021

Won the travel grant for visiting LibreSoft research group in the Department of Telecommunication Engineering at URJC, Madrid, Spain (2018)

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Student volunteer at 34th International Conference on Software Maintenance (ICSME), Madrid, Spain  
*2018*

Travel Grant from Bitergia to attend 11th Seminar on Advanced Techniques & Tools for Software Evolution (SATToSE) *2018*

Full tuition waiver scholarships for full time master of science students, K. N. Toosi University of Technology. *2012 - 2014*

Full tuition waiver scholarships for full time undergraduate students, Shiraz University of Technology. *2008 - 2012*

Ranked top 2% nationwide university entrance exam for Bachelor of Science among more than 300,000. *2008*

## PRESENTATIONS

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**Fourth Madrilenian Seminar on Software Research (MADSESE), Universidad Alcalá de Henares, Spain** *May 9th 2018*

Title: Software Change Management as A Service: A Self-Adaptive Approach

**11th Seminar on Advanced Techniques & Tools for Software Evolution - (SATToSE 2018), Athens, Greek** *June 2018*

Presented in open MIC

Title: Self-Adaptive Software Maintenance

## SAMPLE COURSES (ACCOMPLISHED)

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**Advanced Distributed Systems**

**Semantic Web**

**Artificial Intelligence**

**Data Mining**

**Software Development Management**

**Database Systems**

**Algorithms Design**

**Software Testing**

## CERTIFICATES

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**Social Network Analysis**

*DEC 2013*

Grade Achieved: 78.9%

Instructor: Prof. Lada Adamic

Delivered by Coursera.org

## PROFICIENCY

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**Back-end:** *Advanced Knowledge of JavaSE, Spring boot, Experience with Python and C#, Familiar with Scala, PHP, Nodes.js*

**Front end:** *JavaScript, HTML, CSS, Familiar with Vue.js*

**CI/CD:** *Docker, Experience with Jenkins, Knowledge of GitHub action*

**Web-Service:** *Experience with REST, Familiar SOAP, GraphQL*

**Database:** *Microsoft SQL, MySQL, PostgreSQL, Familiar with Elasticsearch, Firebase*

**Software Design (&Tools):** *Object-Oriented Design, UML, Visual Paradigm, UML Rational Rose*

**Test:** *Defect and Bug Discovery, JUnit, Mockito*

**Version control:** *Git, Team foundation server*

**Analytical Tools:** *Weka, Gephi*

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**ML:** *Familiar with PyTorch*

**Semantic-analysis:** *Knowledge of OWL, RDF, XML, Familiar with Apache Jena, Protégé*

**Operating systems:** *Linux, Windows*

**Big data:** *Apache Spark*

## REFERENCES

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Available upon request.