**Taha Rostami - Curriculum Vitae**

**Personal Data**

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**Education**

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| * Tarbiat Modares University (TMU), Tehran * MSc in Software Engineering * GPA: 3.88/4.0 out of 26 credits * Thesis Title: Selecting fault revealing mutants using Ensemble Learning * Supervisor: Dr. Jalili | 2019-2022 (Oct.) |
| * Babol Noshirvani University of Technology (BNUT), Babol * BSc in Software Engineering * GPA: 3.55/4.0 out of 140 credits * Thesis Title: Automation of Course-Selection Process by Schedule Recommendation * Supervisor: Dr. Sakhaei | 2014-2019 (Jul.) |

**Awards**

**Academic**

* Outstanding student, ranked 1st at Computer Engineering Dept., TMU, Tehran, Iran, 2021
* Scholarship for MSc in Software Engineering study at TMU, 2019
* Scholarship for BSc in Software Engineering study at BNUT, 2014

**Others**

* Iran Chess Premier League, 1st with Asa Saraye Sameh Team, 2013
* Ranked 3rd place in Asian youth Blitz chess championships, with Iranian National Team, Southern, Sri Lanka, 2012
* Iran Chess League One,3rd with Asa Saraye Sameh Team, 2011
* Ranked 1st place in Calligraphy Competition, Mazandaran, Iran, 2007

**Research Interests**

* Text Analysis- anything that is represented textual, e.g., source code of a program, natural language text, clinical text, etc.
* Computational Logic and Reasoning- both classical and probabilistic one
* Constraint Satisfaction Problems- especially from the practical perspective, i.e., by formulating and solving real-world problems such as the ones raised in software verification and using tools such as Z3
* Machine Learning Algorithms- classical and symbolic ones, reinforcement learning, and deep learning; moreover, enjoy thinking in-depth about ensemble learning methods
* Complexity Theory & Designing Algorithms- it is an old but lifelong appetite to someday work in depth on it

**Publications**

* T. Rostami, S. Jalili, "Predicting useful mutants by fine-tuning the UniXcoder pre-trained model," prepared not submitted yet, 2023
* T. Rostami, S. Jalili, "Predicting fault-revealing mutants based on mutant killing severity," submitted to Information and Software Technology, Under Review, 2023
* T. Rostami, "An interpretable model for predicting non-trivial equivalent mutants of the MART," submitted to The Journal of Systems & Software, Under Review, 2023 [[preprint]](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4358867)
* T. Rostami, S. Jalili, "A heuristic function for improving the prediction accuracy of fault revealing mutants," in 9th Iranian Joint Congress on Fuzzy and Intelligent Systems, 2022 [[link]](https://civilica.com/doc/1436432/)
* T. Rostami, S. Jalili, "A method for improving predictive mutation testing that considers the impacts of missing data," in 12th International Conference on Information and Knowledge Technology, 2021

**Selected Academic Projects**

* DeepRL\_EmotionRecognition\_UsingEEGsignals: This is a project that I collaborated on with a friend. We used Deep Reinforcement Learning to recognize emotions based on EEG signals, 2021 [[link]](https://github.com/SaraRostami/DeepRL_EmotionRecognition_UsingEEGsignals)
* B.Sc project (Harif): Design and Implementation of a graph-based automatic course-selection system that recommends schedules based on student’s preferences, 2018 [[link]](https://github.com/TahaRostami/Harif)
* NitPhoneBook: Design and Implementation of an algorithm and software for Babol Noshirvani University of Technology to solve their problem with their out-of-the-date phone-book tools, 2018 [[link]](https://github.com/TahaRostami/NitPhonebook)

**Work Experience**

* Faradars– Teaching Consuming Web Services in C# at a Well-known Educational Website *Faradars*, 2021 [[link]](https://faradars.org/courses/fvcs9907-web-services-using-c-sharp)
* RADMAN- Web Developer as an Intern, 2019
* BNUT- Teaching Assistant Advanced Programming, 2017
* Behineh System- Software Developer as an Intern, 2015
* Asasaraye Same- Chess Player, 2011-2013

**Languages**

* Persian - native
* English – TOEFL iBT: Total 93, Reading 28, Listening 21, Speaking 22, Writing 22, April 01, 2023

**References**

* Saeed Jalili, Associate Professor of Computer Science, TMU, [sjalili@modares.ac.ir](mailto:sjalili@modares.ac.ir) [[g.scholar]](https://scholar.google.com/citations?hl=en&user=j6gUwMkAAAAJ) [[homepage]](https://www.modares.ac.ir/~sjalili)

*His research interests are included, but not limited to, Data Mining, Search-Based Software Engineering, and Formal Methods.*

* Ali Gholami Rudi, Assistant Professor of Computer Science, BNUT, gholamirudi@nit.ac.ir [[g.scholar]](https://scholar.google.com/citations?user=gMfblzgAAAAJ&hl=en&oi=ao) [[homepage]](https://web.nit.ac.ir/~gholamirudi/)

*His research interests include Computational Geometry, Combinatorial Algorithms, and Parallel Processing.*

* Hesam Omranpour, Assistant Professor of Computer Science, BNUT, [h.omranpour@nit.ac.ir](mailto:h.omranpour@nit.ac.ir) [[g.scholar]](https://scholar.google.com/citations?user=0CBvqa8AAAAJ&hl=en&oi=ao) [[homepage]](https://member.nit.ac.ir/home.php?sp=391011)

*His research interests include Artificial Intelligence, Machine Learning, Biomedical Engineering, and Evolutionary Computation.*