**Education**

**M.Sc., Software Engineering, Tarbiat Modares University (TMU), Iran, GPA: 3.88/4.0, ranked 1st outstanding student 2019 - 2022**

**B.Sc., Software Engineering, Babol Noshirvani University of Technology (BNUT), Iran, GPA: 3.55/4.0 2014 –2019**

**English Published Papers**

**T. Rostami**, S. Jalili, "FrMi: Fault-revealing Mutant Identification using Killability Severity," Information and Software Technology, 2023 [[link]](https://www.sciencedirect.com/science/article/abs/pii/S0950584923001623)

**Relevant Experience**

**Research Assistant, Safety-Critical Software & Systems lab, TMU (Sep 2020 - Oct 2022)**

* Did research under [Dr. Jalili](https://scholar.google.com/citations?hl=en&user=j6gUwMkAAAAJ&view_op=list_works&sortby=pubdate)’s supervision on applied machine learning for software testing

**Tutor, Faradars** [[link]](https://faradars.org/courses/fvcs9907-web-services-using-c-sharp) **(Jan 2021 - Mar 2021)**

* Created and taught a C# course on Consuming Web Services

**Web Developer Intern, Radman (Jul 2018 - Sep 2018)**

* Developed a website using C#, ASP.NET Core, and SQL Server

**Teaching Assistant, Advanced Programming course, BNUT (Feb 2017 - Jun 2017)**

* Designed and oversaw a project and delegated tasks to students

**Software Developer Intern, Behineh System (Jul 2015 - Sep 2015)**

* Developed management software using C# and SQL server

**Selected Academic Projects**

**Gross Domestic Product** **(GDP) Estimator 2023**

* Estimating GDP in the absence of historical GDP data using SMT solvers and machine learning clustering algorithms

**Deep Emotion** [[link]](https://github.com/SaraRostami/DeepRL_EmotionRecognition_UsingEEGsignals) **2021**

* EEG-based emotion recognition using deep reinforcement learning

**Harif -** **B.Sc Final Project** [[link]](https://github.com/TahaRostami/Harif) **2018**

* A graph-based automatic course-selection software that recommends schedules based on students’ preferences

**Tati Studio 2017**

* A compiler + IDE for [TSLANG](http://nit.rudi.ir/962/)

**Computer Skills**

* **Highly skilled in Microsoft technologies**, with 6+ years of expertise in C#, SQL Server, ASP.NET Core, ML.NET, SignalR, and more
* **Highly experienced in data science tools**, with 3+ years of experience in Python, PyTorch, TensorFlow, LightGBM, Optuna, and more
* **Familiar with** Z3, LLVM, Hugging Face, NLTK, PyG, Stable Baselines, PyGad, JavaScript, Java, C, R, Hadoop, Docker, Git, and more

**Languages**

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

***References Available Upon Request***