

## Education

<b>M.Sc., Software Engineering, Tarbiat Modares University (TMU), Iran, GPA: 3.88/4.0, ranked 1<sup>st</sup> outstanding student</b>	<b>2019 - 2022</b>
<b>B.Sc., Software Engineering, Babol Noshirvani University of Technology (BNUT), Iran, GPA: 3.55/4.0</b>	<b>2014 –2019</b>

## Research Experience

<b>Researcher (Remote), Algorithms &amp; Mathematics Group, University of Windsor</b>	<b>(Oct 2023 - Present)</b>
<ul style="list-style-type: none"> <li>Conducting research under <a href="#">Dr. Curtis Bright</a>'s supervision on solving mathematical problems using automated theorem provers</li> </ul>	
<b>Research Assistant, Safety-Critical Software &amp; Systems lab, TMU</b>	<b>(Sep 2020 - Oct 2022)</b>
<ul style="list-style-type: none"> <li>Conducted research under <a href="#">Dr. Saeed Jalili</a>'s supervision on applied machine learning for software testing</li> </ul>	

## Teaching Experience

<b>Tutor, Faradars <a href="#">[link]</a></b>	<b>(Jan 2021 - Mar 2021)</b>
<ul style="list-style-type: none"> <li>Created and taught a C# course on Consuming Web Services</li> </ul>	
<b>Teaching Assistant, Advanced Programming course, BNUT</b>	<b>(Feb 2017 - Jun 2017)</b>
<ul style="list-style-type: none"> <li>Designed and oversaw a project and delegated tasks to students</li> </ul>	

## Work Experience

<b>Web Developer Intern, Radman</b>	<b>(Jul 2018 - Sep 2018)</b>
<ul style="list-style-type: none"> <li>Developed a website using C#, ASP.NET Core, and SQL Server</li> </ul>	
<b>Software Developer Intern, Behineh System</b>	<b>(Jul 2015 - Sep 2015)</b>
<ul style="list-style-type: none"> <li>Developed management software using C# and SQL server</li> </ul>	

## Publications (English)

- T. Rostami, S. Jalili, "FrMi: Fault-revealing Mutant Identification using Killability Severity,"** Information and Software Technology (Q1 Journal), 2023 [\[link\]](#)

## Sample Code *(a more complete list is available on my Website, GitHub, and YouTube—links at the top of the CV)*

<b>MiniPyDPLL <a href="#">[link]</a></b>	<b>2024</b>
<ul style="list-style-type: none"> <li>Python implementation of the DPLL algorithm inspired by MiniSAT.</li> </ul>	
<b>Light-Gray Deep Learning <a href="#">[link]</a></b>	<b>2024</b>
<ul style="list-style-type: none"> <li>Implementation of algorithms such as Word2Vec, LSTM seq. classification, Seq2Seq with attention, and Transformers with beam search decoding.</li> </ul>	
<b>Gross Domestic Product (GDP) Estimator</b>	<b>2023</b>
<ul style="list-style-type: none"> <li>Estimating GDP in the absence of historical GDP data using SMT solvers (Z3) and machine learning clustering algorithms</li> </ul>	
<b>Harif - B.Sc. Final Project <a href="#">[link]</a></b>	<b>2018</b>
<ul style="list-style-type: none"> <li>A software to automate the university enrollment process, leveraging graph modeling and randomized search algorithms to match student preferences.</li> </ul>	

## Relevant Computer Skills

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- **Programming Languages:** Python (*frequently used*), C++ (*used occasionally*), C# (*extensively used in the past*), Java (*rarely used*)
- **Frequently Used Tools:** PySAT, SAT Solvers (*e.g., Mini-SAT, CaDiCaL*), March\_cu (*look-ahead cube and conquer for SAT solving*), cake\_lpr (*concurrent proof verification*), NetworkX, PyTorch (*including relevant machine learning and deep learning toolkits*)
- **Familiar with:** Z3, nauty (*for isomorphism rejection*), Hugging Face and LangChain (*for fine-tuning deep learning models and developing AI-powered applications*), PyGad (*for nature-inspired search*), Docker, and Git.

## Languages

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

*References Available Upon Request*

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