Taha Rostami

Website | Youtube | Github | Linkedin | Visual CV | GScholar | Email: taha.rostami.darunkola@gmail.com

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**

Publications (English)

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

Research Experience

Researcher (Remote), Algorithms & Mathematics Group, University of Windsor **(Oct 2023 - Sep 2024)**

- Conducting research under Dr. Curtis Bright's supervision on solving mathematical problems using automated theorem provers

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

- Conducted research under Dr. Saeed Jalili's supervision on applied machine learning for software testing

Teaching Experience

Tutor, Faradars [link] **(Jan 2021 - Mar 2021)**

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

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

- Designed and oversaw a project and delegated tasks to students

Work Experience

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

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

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

- Developed management software using C# and SQL server

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

SAT Log [link] **2025**

- This is a collection of problems solved primarily using SAT solvers.

MiniPyDPLL [link] **2024**

- Python implementation of the DPLL algorithm inspired by MiniSAT.

Light-Gray Deep Learning [link] **2024**

- Implementation of algorithms such as LSTM seq. classification, Seq2Seq with attention, and Transformers with beam search decoding.

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

- Estimating GDP in the absence of historical GDP data using SMT solvers *(Z3)* and machine learning clustering algorithms

Harif - B.Sc. Final Project [link] **2018**

- A software to automate the university enrollment process, leveraging graph modeling and randomized search algorithms to match student preferences.

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Relevant Computer Skills

- **Programming Languages**: Python (frequently used), SQL (extensively used in the past; used occasionally when needed), C++ (used occasionally), C# (extensively used in the past), Java (rarely used)
- **Frequently Used Data science Tools**: PyTorch, Hugging Face, LangChain, scikit-learn, XGBoost
- **Frequently Used Automated Reasoning Tools**: PySAT, SAT Solvers (e.g., Mini-SAT, CaDiCaL), z3
- **Familiar With**: Docker, and Git.

Languages

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

References Available Upon Request