

EDUCATION

University of Tehran, School of Electrical and Computer Engineering B.Sc. in Computer Engineering, Current GPA: 3.9/4.0 (18.45/20)	Tehran, Iran 2018 – Present
Shahid Soltani 1 High School Diploma in Mathmatics and Physics, GPA: 4.0/4.0 – Part of <i>National Organization for Development of Exceptional Talents</i>	Karaj, Iran 2014 – 2018

Selected Coursework

My top grades during the B.Sc. program are as follows:

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|---|---|
| – Advanced Programming: 20/20 | – Data Structures and Algorithms: 20/20 |
| – Formal Languages and Automata Theory: 19.5/20 | – Artificial Intelligence: 20/20 |
| – Operating Systems: 19.5/20 | – Discrete Mathematics: 20/20 |
| – Programming Languages and Compilers: 19.4/20 | – Engineering Probability and Statistics: 17.9/20 |
| – Formal Methods in Software Engineering: 18.9/20 | – Computer Networks: 16/20 |
| – Design and Analysis of Algorithms: 20/20 | – Signals and Systems: 17/20 |

RESEARCH EXPERIENCE

Institute of Science and Technology Austria Research Intern	Klosterneuburg, Austria Summer 2022
– Worked under supervision of Prof. Thomas Henzinger , on <i>Monitoring Fairness of Decision Making Processes</i> . – Scholarship granted by the <i>Austrian Agency for International Cooperation in Education and Research (OeAD-GmbH)</i> .	

University of Tehran Research Assistant	Tehran, Iran August 2021 - Present
– Collaborated with Dr. Hossein Hojjat on <i>Causal Reasoning in Concurrent Systems</i> .	

WORK EXPERIENCE

Divar Software Engineer	Tehran, Iran January – July 2022
– Working on the <i>Job Finding</i> project as a developer.	
Tapsell DevOps Intern	Tehran, Iran Summer 2021
– Experimented with some infrastructure technologies.	

PUBLICATIONS

1. Thomas A. Henzinger, Konstantin Kueffner, Kaushik Mallik, and Mahyar Karimi. “Monitoring Algorithmic Fairness”. Submitted to *29th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)*, 2023.

TALKS AND PRESENTATIONS

- [Monitoring of Fairness Properties in Markov Chains](#) September 2022
Presented my summer internship work to Prof. Henzinger and Prof. Chatterjee's group.
- [NetKAT: Semantic Foundations for Networks](#) Spring 2022
Presented main ideas of the paper to a class of computer engineering students.

TEACHING

University of Tehran

- **Teaching Assistant**, *Advanced Programming* Course (Lecturer: [Dr. Ramtin Khosravi](#)) Fall 2020 – Spring 2022
- **Teaching Assistant**, *Data Structures* Course (Lecturer: Dr. Fathiyeh Faghieh) Fall 2020 – Spring 2022

PROJECTS

- [Koloocheh](#) (Python, gRPC) June 2022
A Peer-To-Peer File Sharing System.
- [Jepeto Compiler](#) (Java) March – July 2021
A Compiler for the *Jepeto* Programming Language (Practice Language Designed at My Faculty.)
- [MP](#) (Go) March 2022
Implementation of a Message Broker in Go.
- [Dots and Boxes](#) (C with Sockets) October 2020
The Classic Game, with Sockets for Multiplayer Gaming and Client-Server Communication.
- [Tank Trouble](#) (C++ with RSDL) January 2020
Two-Player Game of Tank Battle, Implemented with [RSDL](#) Graphics Framework.

ACHIEVEMENTS

- Ranked top 2% nation-wide, national university entrance exam (mathematics group). 2018
- Ranked top 1% nation-wide, national university entrance exam (English-exclusive group). 2018
- Semi-Finalist in National Mathematics Olympiad 2016, 2017
- Semi-Finalist in National Informatics Olympiad 2017

SKILLS

- **Programming Languages:**
 - Skilled in Python, C++, C
 - Familiar with Go, Rust, Java
- **Tools and Libraries:** Numpy, Pandas, SPIN, ANTLR, NuSMV
- **Technologies:** Git, Docker, Kubernetes, Nginx, Redis

LANGUAGES

- **English:** Upper-Intermediate
 - TOEFL iBT Score:
Total, R, L, S, W: 112, 30, 30, 27, 25
- **Persian:** Native