Hossein Soltanloo

Curriculum Vitae

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Education

Sep 2016 – Aug 2021 **B.Sc. Computer Engineering**, *School of Electrical and Computer Engineering, University of Tehran*, Tehran, Iran.
- Overall GPA: 3.41/4
- Last two years' GPA: 3.82/4
- Thesis topic: "Implementation of a Simulator for the Hybrid Rebeca Language", Thesis grade: 4/4
- Thesis supervisor: Dr. Fatemeh Ghassemi

Jul 2013 – Jul 2016 **High School Diploma in Mathematics and Physics**, *National Organization for Development of Exceptional Talents, Allameh Helli High School*, Malard, Tehran, Iran.

Research Interests

- Software Engineering
- Software Analysis
- Human-centred Software Engineering
- Human-Computer Interaction

Awards and Honors

2016 **Admission to** University of Tehran

2016 **Ranking among the top %3** of more than 160,000 students in the Nationwide University Entrance Exam (Konkour) on Mathematics and Technical Sciences

2016 **Ranking among the top %1** of more than 115,000 students in the Nationwide University Entrance Exam (Konkour) on Foreign Languages

Work Experience

Jul 2020 – Aug 2022 **Front-End Developer**, *Tapsell*, Tehran, Iran.
Tapsell is the most reputable and most trusted network in the digital advertising industry in Iran. As a front-end developer, I'm working on various client-side projects and applications to deliver the best experience to customers. I'm mainly using Angular framework, in addition to other tools and libraries like Svelte, Webpack, Sass, and many more.

May 2019 – Jan 2020 **Front-End Developer**, *HerminaTech*, Tehran, Iran.
HerminaTech, a knowledge-based company, offers cloud-based property management solution (PMS) to resorts, hotels and multi-property groups developed with trending technologies. I first started working there as an intern and after two months, I got a job offer to be a full-time developer. As a front-end developer, I worked on a big project aiming to deliver a highly scalable hotel management web application. I mainly worked with the React library.

Jul 2014 – Oct 2018 **ICT Journalist**, *www.farnet.ir*, Tehran, Iran.
As a journalist and blogger, I managed to write hundreds of articles and news.

Publications

○ Solouki, S., & Soltanloo, H. (2018). The spaces where addiction acts: Focus on drug-induced molecular and cellular changes in the cerebellum. In S. Fabbri (Ed.), *Development of the cerebellum: Clinical and molecular perspectives* (pp. 69-117). Nova Science Publishers.

Notable Academic Projects

Spring 2021	Development of a simulator for the Hybrid Rebeca language—an actor-based cyber-physical system modeling language. Supervisor: Prof. F. Ghassemi, Bachelor's Thesis Project
Spring 2021	Development a decentralized tracker for shared expenses built with smart contracts on top of the Ethereum blockchain. [Source Code] Advisor: Prof. B. Bahrak, Introduction to Cryptocurrencies Course
Fall 2020	In a series of five projects, we got familiar with parallel programming libraries, such as Intel SIMD, PThread, OpenMP, and Nvidia CUDA programming. [Source Code] Advisor: Prof. S. Safari, Parallel Programming Course
Spring 2020	In a series of six projects, we got familiar with traditional aspects of artificial intelligence, like search algorithms, and the more modern Machine Learning methods, like ensemble methods, regression, and neural networks. [Source Code] Advisor: Prof. H. Fadaei, Artificial Intelligence Course
Fall 2019	Development of a meeting scheduler web application as a team of three utilizing agile development methods [Source Code] Advisor: Prof. R. Khosravi, Software Engineering Course
Spring 2019	Development of a job-finding web application [Source Code] Advisor: Prof. E. Khamespanah, Internet Engineering Course
Spring 2019	Building a Ball and Plate controller system with two degrees of freedom using Arduino [Source Code] [Demo] Advisor: Prof. M. Kargahi, Real-Time and Embedded Systems Course
Fall 2018	Development of new features on the xv6 operating system in five phases [Source Code] Advisor: Prof. M. Kargahi, Operating Systems Lab
Fall 2018	Implementation of a multi-threaded neural network using pthread and semaphores in C++ [Source Code] Advisor: Prof. M. Kargahi, Operating Systems Course
Fall 2018	Development of a compiler for the Smoola language [Source Code] Advisor: Prof. F. Ghassemi, Programming Languages and Compilers Course
Spring 2017	Development of a simple version of Plants vs. Zombies game using C++ and SDL libraries Advisor: Prof. R. Khosravi, Advanced Programming Course

Teaching Experience

Fall 2020, Spring 2020, & Fall 2019	Teaching Assistant, **"Operating Systems Course and Lab"** Instructor: Prof. M. Kargahi, University of Tehran Description: I was responsible for desiging and grading various course and lab assignments. The assignments that I designed were mainly focused on familiarizing the students with process synchronization and inter-process communication.
Fall 2020	Teaching Assistant, **"Software Engineering"** Instructor: Prof. R. Khosravi, University of Tehran Description: I was responsible for preparing and grading some assignments. The assignments aimed for familiarizing the students with software development methods and best practices.

Spring 2020	Head Teaching Assistant, **"Systems Analysis and Design"**
	Instructor: Prof. F. Ghassemi, University of Tehran
	Description: As the head teaching assistant, I planned and managed all of the course activities.
Spring 2020	Teaching Assistant, **"Internet Engineering"**
	Instructor: Prof. E. Khamespanah, University of Tehran
	Description: In this course, I was responsible for designing and grading two assignments. The goal of the assignments was to familiarize the students with front-end web development tools and technologies.
Spring 2020	Teaching Assistant, **"Real-Time and Embedded Systems"**
	Instructor: Prof. M. Kargahi, University of Tehran
	Description: I contributed to design of a computer assignment about communication protocols and sensors.

Relevant Courses

Operating Systems(4/4), Systems Analysis and Design(4/4), Software Engineering(4/4), Software Testing(4/4), Programming Languages and Compilers(4/4), Advanced Software Design(4/4), Artificial Intelligence(4/4), Parallel Programming(4/4), Internet Engineering(4/4), Human-Computer Interaction(4/4), Introduction to Cryptocurrencies (Master's Course)(4/4)

Technical Skills

Programming Languages	Python, C/C++, Java, JavaScript, TypeScript
Web/DB Technologies	HTML, CSS, React, Vue, Angular, Docker, MySQL
Tools	Git, LaTeX, Postman, Sketch
Operating Systems	Apple macOS, Microsoft Windows, Linux (Ubuntu)
Other	Photography

Volunteering and Activities

Dec 2017 – May 2019	**Treasurer**, *University of Tehran ACM Student Chapter (Student Association of Computer Engineering)*, Tehran, Iran.
Apr 2019	**Organizing Committee Member**, *8th IPM International Conference on Fundamentals of Software Engineering*, Tehran, Iran.
	Picked up international guests from the airport and guided them throughout their stay. I also was a photographer.
May 2018	**Organizing Committee Member**, *The CSI International Symposium on Real-Time and Embedded Systems and Technologies (RTEST)*, Tehran, Iran.
	I was in charge of poster, certificate, and ID card design.
June 2016 – Feb 2017	**Translator**, *Pingonio*.
	Contributed to group translation of the book "The Mom Test" available on pingon.io.

Languages

Persian	Native	
English	Advanced	*TOEFL: 115/120 [R:30, L:30, S:25, W:30] (Sep. 2021)*
Arabic	Only Reading	

References

Excellent references are available upon request