Nazanin Mashhadi Tafreshi

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GitHub:	https://github.com/NazaninTafreshi

Education

2014–present	BSc, Computer Hardware Engineering, K. N. Toosi University of Technology,
	Overall GPA: 16.39/20 (top 15% in the class)
	Last 2 years GPA: 17.79/20
	Selected Courses: Database: 20, Microprocessor & Assembly Language Programming: 18.5, Computer Network: 18.5, Operating System: 18.1, Hardware-Software co-design: 17.5, Compiler: 17.5, Computer Aided Digital System Design: 17.25 (all scores are out of 20)
2010-2013	Diploma in Mathematics and Physics, Overall GPA: 19.93/20.00

Fields of Interests

Machine Learning, Computer Vision, Medical Imaging, Internet of Things

Test Scores

TOEFL: 94   Reading: 22, Listening: 25, Speaking: 22, Writing: 25

Publications

Ayoubi, G., Sedighian Kashi, S., & Mashhadi Tafreshi, N. (2017). Service Level Agreement in Sensor-Cloud. *Ain Shams Journal of Electrical Engineering*, $1 - 13$.

Honors and Awards

September 2016	2nd Place, Puyesh Nasir projects competition, KNTU, Tehran, Iran.
December 2016	2nd Place in volleyball competition, KNTU team, university tournament.
2014	Ranked in the top 1% among approximately 200,000 participants in the Nationwide University Entrance Exam in the field of Mathematics and Physics for Bachelor of Science degree, Tehran, Iran.

Academic Projects

Ongoing Project at IPM, **Diabetic Retinopathy Detection** using a Convolutional Neural Network in Python with Keras library. Advisor: Dr. Dara Rahmati

Book Reader, A Java GUI-based application which uses Goodreads API to help the user to search for books in it and see the information of a book and quotes from it.

SLA in Sensor-Cloud, A Java visualization program that uses SAW and TOPSIS methods to simulate service level agreement for a four-layered Sensor-Cloud architecture.

Technical Skills

Programming
Proficient in: Java, Object Oriented Programming, JavaFX, VHDL, OpenCV.
Familiar with: Python, C, C++, Android, Functional Programming, Design Patterns, CUDA, OpenMP.
Softwares
MATLAB, Corel, Latex, Adobe Photoshop.
Databases
MySQL and SQLite, Oracle.
Operating Systems
Linux and Windows.

Professional Experience

Spring 2019-present	Internship at Iran Raja Company: Learning Image Processing.
Fall 2016,2018	Data Structure Teaching Assistant, KNTU, Instructor: Ali Ahmadi.
Summer 2018	Researcher at IPM: Working on Anomaly Detection.
Spring 2018	Database Teaching Assistant, KNTU, Instructor: Saeed Farzi.
Spring 2018	Java Core Programming Instructor, Introductory course on Java Programming.
Summer 2017	Internship at IPM: Learning CUDA and OpenMP.
Spring 2017	Algorithm Teaching Assistant, KNTU, Instructor: Ali Ahmadi.
Spring 2017	Advanced Programming in Java Teaching Assistant, KNTU, Instructor: Mehdi Esnaashari.
Fall 2015-2017	Website Administrator at Amethyst company.
Fall 2015	English Teacher: Pre-Intermediate level.

Certificates

April 2019	Participant and Organizing member of the TopHPC Congress, Tehran, Iran.
February 2019	Neural Networks and Deep Learning
August 2018	Python Programming: A Concise Introduction Wesleyan University.
August 2016	Introduction to Big Data University of California, San Diego.
July 2016	Algorithmic Toolbox University of California, San Diego & Higher School of Economics.
February 2016	Object Oriented Programming in Java University of California, San Diego.
February 2016	Java Tutorials for complete beginners On Udemy online courses.

Interests and Hobbies

Volleyball, Traditional Music