

ARMITA SAFA

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EDUCATION

University of Tehran

2015 - present

Bachelor of Science, Computer Engineering

Current GPA: 17.62/20 (Ranked 2nd)

- Significant courses(out of 20): Compiler Design(20), Data Transmission(20), Linear Control Systems(19.9), Hardware/Software Co-design(19.8), Wireless Networks(19.5), Computer Networks(19.1), Real-time Embedded Systems(18.5), Computer Architecture(17.95), Data Structures and Algorithms(17.7), Algorithmic Graph Theory(17.5)
- Final Year GPA: 19.72/20

Farzanegan High School

2011 - 2015

Diploma, Mathematics and Physics Discipline

GPA:19.93/20

(Affiliated with the National Organization for Development of Exceptional Talents)

RESEARCH EXPERIENCE

Undergraduate Research Assistant

2018 - present

Institute for Research in Fundamental Sciences (IPM)

Supervised by Dr. Pooya Shariatpanahi; Working on applying Deep Learning techniques to the physical layer of network.

Summer Research Intern

Summer 2019

Center of Bioinformatics, Saarland University

Joint with Max Planck Institute for Informatics

Supervised by Prof. Dr. Tobias Marschall; Worked on error correction for long noisy reads.

TEACHING ASSISTANCE

- **Head TA**, Data Transmission, Dr. Shariatpanahi Fall 2019
- Discrete Mathematics, Dr. Mohammadi Spring 2018 - present
- Computer Networks, Dr. Khonsari Fall 2018 - present
- Programming Languages and Compilers, Dr. Hojjat Spring 2019
- Introduction to Computing Systems and Programming, Dr. Moradi 2016 - 2017
- Microprocessors, Dr. Fatemi Fall 2018
- Electrical Circuits, Dr. Sadrossadat Fall 2017

NOTABLE PROJECTS

Sound-following Robot

2019

Real-time Embedded Systems Course

A real-time robot that follows a sound with a certain frequency in a noisy environment.

Smoola Compiler

2018

Compiler Design and Implementation Course

A compiler for a custom object-oriented language called Smoola; Smoola code compiled to Java byte-code.

Floodlight Extension
Computer Networks Course

2018

Designed and implemented an algorithm for detecting the topology of a network and routing packets; Used Floodlight OpenFlow Controller.

ACM Vahed

2017

Worked as a part of ACM Vahed team, a utility to help University of Tehran students choose courses for each semester; developed with Ruby on Rails.

Pintos Scheduler
Operating Systems Course

2017

A customized scheduler for Pintos that schedules processes based on IO usage, resulting in increased efficiency.

HONORS AND AWARDS

- FOE (Faculty of Engineering) award for ranking **3rd** among computer engineering students 2018
University of Tehran
- Ranked **202nd** in Iranian University Entrance Exam (Top %0.3) 2015
Mathematics and Physics Discipline

PROFESSIONAL EXPERIENCE

Digikala
Software Engineer at Digipay

Jun 2018 - Sep 2018

- Member of Digipay team; aiming to provide secure e-payment services.
- Worked on design and implementation of algorithms for Smart IPG Routing service.
- Developed with Java Spring.

EXTRA-CURRICULAR

- Online Courses**
- Bioinformatics Specialization, University of California San Diego
 - Algorithms for DNA Sequencing, Johns Hopkins University
 - Advanced Bioinformatics, Sharif University of Technology

Position of Responsibility

- Membership Chairperson 2016 - 2017
University of Tehran ACM Student Chapter
(ACM is widely recognized as the premier membership organization for computing professionals, delivering resources that advance computing as a science and a profession.)

SKILLS

Programming Languages	C/C++, Python, Java; Familiar with MATLAB, R
Technologies & Tools	Spring Framework, Git, HTML, CSS, Databases, \LaTeX
Simulation & Synthesis	Verilog, Modelsim, Multisim, HSpice, Quartus, ISE
Languages	English(<i>Fluent</i>), German(<i>Elementary</i>), Farsi(<i>Native</i>)