# Maziyar Nazari

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING

UNIVERSITY OF TEHRAN, TEHRAN, IRAN

CELL PHONE: +98-935-7311922
E-MAIL: MAZIYAR.NAZARY@GMAIL.COM
HOMEPAGE: MNAZARI.NET

## EDUCATION

- 2013-2017: B.Sc. in Computer Engineering/Information Technology, ECE Department, University of Tehran, Tehran, Iran

  GPA of Last Year: 18.1/20 (3.89/4) GPA of Last Two Years: 17.7/20 (3.73/4) Total GPA (up to now): 16.56/20 (3.43/4)

  **Course Audited**:
  - ***Fall 2016:*** Computer Network Security (Grade: 17.6/20)
  - ***Spring 2016:*** Human Computer Interaction (Grade: 20/20)

  **http://www.ut.ac.ir/en**
- 2009-2013: Diploma in Mathematics and Physics Discipline, "Alborz" High School for Talented Students, Tehran, Iran

  GPA: 19.85/20

  **www.mandegaralborz.sch.ir**

## RESEARCH INTERESTS

- **Computer Networks and Systems**
- **Software Engineering**
- **Artificial Intelligence, Machine Learning**

## AWARDS AND HONORS

- ***2015-2016:*** **Ranked 4th among All Information Technology Engineering Students,** University of Tehran, Tehran, Iran.
- ***Summer 2013:*** **Ranked 790th** in Nationwide University Entrance Exam for B.Sc. Program Among More than 350,000 Participants i.e. in Top 0.2%
- ***Spring 2012:*** **In Top 5** among High School Students (More Than 300 Students)
- ***2008:*** **Ranked 3rd** in Tehran Regional Soccer League in Junior High School
- ***Summer 2007:*** **Ranked 1st** in "Mahalle" Music Festival, Individual Piano Playing

## TECHNICAL SKILLS

- ***Programming Languages*:**
  - Guru in C, C++
  - Java, C#, Python, MATLAB, SQL, Bash, Ruby, Verilog HDL, VHDL
- ***Web Programming, Frameworks and Tools:***

  J2EE, HTML, CSS, JS, JSP, AJAX, AngularJs, JQuery, Bootstrap, Hibernate, Rails, Docker, Kubernetes, Minikube
- **Tools/Softwares:**

  Intellij IDEA, Visual Studio, MSSQL Management Studio, Wireshark, OpenSSL, Microsoft Office, Modelsim, Quartus II, Xilinx, Clementine, Pentaho, Weka, Qlikview, CMS(Drupal)
- ***Project Management Tools:*** Git (VCS), Maven (Build Tool)
  - https://gitlab.com/maziar
  - https://github.com/Maziyar-Na
- **Graphic Libraries:** SDL, Qt4, Java Swing, PyGame
- **Programming On FPGA and Raspberry Pi**

- **Operating Systems:** Windows, Linux

## TEACHING EXPERIENCE

- 2016 - 2017: **Introduction to Computing systems and Programming**
  ***Sept. 2016 – Feb. 2017*** : Teaching Assistant, Project TA and Exam Grader
  Prof. H. Moradi and Prof. M. R. Hashemi, ECE Department, University of Tehran
  ***Feb. 2016 – July 2016***: Supervisor
  M. Emadi, ECE Department, University of Tehran
- 2016 - 2018: **Operating Systems and Operating Systems Lab**
  ***Sept. 2017 – Present:*** Teaching Assistant, Quiz and Operating System Lab Project Design
  ***Feb. 2017 – July 2017:*** Teaching Assistant, Quiz and Operating System Lab Project Design
  ***Sept. 2016 – Feb. 2017:*** Teaching Assistant, Homework and Quiz Design
  Prof. M. Kargahi, ECE Department, University of Tehran
- 2016 - 2018: **Computer Networks**
  ***Sept. 2017 – Present:*** Teaching Assistant, Homework Design
  ***Feb. 2017 – July 2017:*** Teaching Assistant, Homework and Project Design
  ***Sept. 2016 – Feb. 2017:*** Teaching Assistant, Homework Design
  Prof. A. Khonsari, ECE Department, University of Tehran
- 2016 - 2017: **Artificial Intelligence**
  ***Feb. 2017 – July 2017:*** Teaching Assistant, Project Design and Exam Grader
  Prof. M. H. Bokaei, ECE Department, University of Tehran
  ***Sept. 2016 – Feb. 2017:*** Teaching Assistant, Quiz and Project Design, Exam Grader
  Prof. H. Moradi, ECE Department, University of Tehran
- 2016 - 2017: **Human Computer Interaction**
  ***Sept. 2016 – Feb. 2017:*** Teaching Assistant
  Prof. M. Rahgozar, ECE Department, University of Tehran
- 2016 - 2017: **Computer Architecture**
  ***Sept. 2016 – Feb. 2017:*** Teaching Assistant, Project TA
  ***Feb. 2016 – July 2016***: Teaching Assistant, Project TA
  Prof. S. Safari, ECE Department, University of Tehran

## SELECTED PROJECTS

- **Computer Networks and Systems**
  - ***Spring 2017: A module in Floodlight Project***: Final Course Project of Computer Networks Lab, A Controller Module on a Custom Topology Using Floodlight Open Source Project and Mininet
  - ***Spring 2016: Web Proxy***: Final Course Project of Computer Networks, Implementing a Web Proxy, Using Python and SQLite DB, Having Admin Interface, URL Caching, Works on HTTP Packets
  - ***Fall 2015: Bit Torrent***: Course Project of Operating Systems, A Multi-user File Sharing System Implemented with System Calls on Linux and Socket Programming
  - ***Fall 2015: Map-Reduce***: Course Project of Operating Systems, Using a Map-Reduce Algorithm to Count Number of A Specific Repeated Word in a Large File by Multiprocessing and Pipe
  - ***Fall 2015: Synchronization:*** Implementing a Program by Multiprocessing, Validating and Updating Bank Transaction Files, Using Shared Memory, Mutex Lock
  - ***Fall: 2015: Linux Memory Management Policies***: Course Project of Operating Systems, Implementing First-fit, Best-fit and Worst-fit Policies Using System Calls on Linux
  - ***Fall 2015: Linux Kernel Programming (Kernel 2.6.32.68)***
    - Adding 3 New System Calls, Sorting and Analyzing Running Processes, Using Kernel Linked List
    - Implementing a New Semaphore Having Priority Inheritance Protocol

- ***Fall 2013: File System***: Final Course Project of Introduction to Computing Systems and Programming, Implementing a Simple File System with Basic Functions, Using C Programming Language, 2D Linked List

- **Applications, Software Engineering and Internet Engineering**
  - ***Spring 2017: Online Airplane Reservation Web Application:*** Course Project of Internet Engineering, Using
    - J2EE, HTML, CSS, JS, JSP
    - Technologies and Frameworks: Bootstrap, AngularJS, HSQLDB, Tomcat server, Docker and Kubernetes (Microservice), Maven, Git, Log4j, JUnit
    - With CSRF and SQL Injection Handling

    https://gitlab.com/maziar/UT.IE96
  - ***Fall 2016: Web-Dota:*** Final Course Project of Database Lab, Designing EERD and Implementing a Game Based on SQL, Using Stored Procedures, Functions and Views, Agents, SQL Server and SQL Management Studio, with Basic Graphic Implementation in C#
  - ***Spring 2016: Customs House Software*****:** Course Project of Systems Analysis and Design, Include Prototyping, Documentation (Activity Diagram, Domain Modeling and etc), Implementation (C#, SQL Server), Testing (Unit Test, Integration Test)

    https://github.com/MoeinSorkhei/SE-Project
  - ***Spring 2014: "Instagholam":*** Final Course Project of Advance Programming**,** an Instagram-like Project, Using C++, Object Oriented Design, Socket Programming, Multithreading, Qt4 Library
  - **Spring 2014: Krush:** Course Project of Advanced Programming GUI Linux Game as a Clone of Candy Crush, Powered by SDL Library
- **Algorithms and Artificial Intelligence**
  - ***Spring 2016: Genetic Algorithm:*** Course Project of Artificial Intelligence, Implementing an Algorithm Using Genetic Approach to Solve a Minimization Problem
  - ***Spring 2016: Dots and Boxes:*** Course Project of Artificial Intelligence, Implementing an Agent to Play Dots and Boxes Game With Alpha-Beta Pruning Algorithm
  - ***Spring 2016: Soduku Solver:*** Course Project of Artificial Intelligence, A Soduku Solver, Implemented With Python, Using Uninformed Search and Backtracking
  - ***Spring 2015: Ford-Fulkerson:*** Course Project of Algorithm Design, Implementing Max-flow Algorithm
  - ***Fall 2014: Map*****:** Course Project of Data Structures, Map of Tehran, Iran, Using Python and Pygame, with Zoom Function and Shortest Path Finding Based on Quadtree and Other Data Structures
- **Signal Processing, Data Transmission and Multimedia Projects:**
  - **Spring 2017:** Implementing These Algorithms On Text, Images and Videos Using MATLAB
    - **Ordered Dithering, Floyd-Steinberg, Stucki for Dithering Process**
    - **LZW Coding and Decoding Algorithm**
    - **Parts of Decoding Process in JPEG and JPEG2000**
  - ***2016 - 2017:*** Implementing These Related to Coding and Modulation Using MATLAB, C++:

    Pulse Code Modulation, Delta Modulation, QPSK, CRC Coder/Decoder, Viterbi Decoder
- **Hardware Projects**
  - ***Fall 2015: Digital Oscilloscope:*** Course Project of Digital Logic Circuit Design Lab, Implemented With Verilog, Synthesized on FPGA, Connected to VGA display
  - ***Fall 2015: Cordic Coprocessor Hardware Design:*** Course Project of Computer Aided Design, Using VHDL
  - ***Spring 2015: Pipelined MIPS Processor:*** Course project of Computer Architecture, Design and Implement Pipelined MIPS Processor in Verilog HDL

## PROFESSIONAL EXPERIENCE

- ***Summer 2016:*** Internship at Social Network Lab, University of Tehran, Tehran, Iran

  Role: Developer

  Design and Implement a Text Mining Program in a News Agency Website, With Time Extraction and A Timeline For News
- ***Summer 2016:*** Front-End Developer at a Commercial Website Relates to an Amusement Park Construction Company
- ***Oct. 2016:*** Teaching Assistance Workshop, University of Tehran, Tehran, Iran
- ***Feb. 2016:*** Computer Network Security Workshop and CTF competition
- ***Fall 2015:*** Front-End Web Developer at an Online Documentation of Historical Constructions

  http://www.oudlajan.org
- ***Summer 2015:*** Summer of Code

  Role: Developer

  A Web Service Translating a Persian Text With Non-Persian Words into Pure Persian Text, Using J2EE, Maven Build Tool, Hibernate ORM, MySQL DB (Subject: NLP)
- ***Spring 2015***: Cooperation in Holding Ubuntu 15.04 Version Releasing Festival in University of Tehran, Tehran, Iran

  http://acm.ut.ac.ir/ubuntu/
- ***Spring 2015:*** Cooperation in Holding "Panjereh" Conference, Subject: Student's Future Job Opportunities

  ACM Student Chapter of University of Tehran, Tehran, Iran

  http://acm.ut.ac.ir/panjere/

## EXTRACURRICULAR ACTIVITIES

**Art**: Professional Piano Player

**Sports:**

- Soccer: Professional
- Basketball: Good
- Swimming: Skilful
- Ping-Pong: OK

## LANGUAGES

- **Persian: Native**
- **English: Fluent**

  TOEFL Score: 99 (Reading: 26, Listening: 22, Speaking: 24, Writing: 27)

## REFERENCES

Available Upon Request