

Behdad Mansouri

[Linkedin](#), [github](#), [email](#)

Interests

- Artificial Intelligence
 - Data Science, Data Mining, Database Systems
 - Machine Learning (Reinforcement Learning - Deep Learning)
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Education

Amirkabir University of Technology (Tehran Polytechnic) Fall 2016 - now

Computer Engineering B.Sc. Majors AI & SE

Last 20 Courses GPA: **3.62 / 4**

Last 60 Credits GPA: **3.53 / 4**

CGPA: **3.29 / 4**

Iran Language institute (ILI) Fall 2012 - Spring 2016

Graduation from Advanced 2

Allameh Tabatabaei High School Fall 2012 - Spring 2016

Diploma in Mathematics and Physics

Technical Skills

- **Python:** numpy, ipynb, TDD, AsyncIO, Web Scraping
 - **Java:** OOD - Socket programming - GUI
 - **C++:** Async, Arduino (Microprocessors)
 - **Javascript** (Jquery, AngularJS), Golang, HTML & CSS
 - **Databases:** MySQL, SQLServer, SQLite, Redis
 - **Linux:** Bash, Server setup, Docker
 - **Git, Vim, Latex, UML**
 - **Hardware Design:** VHDL, Verilog & ARMv7 Assembly
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Language Skills

Persian: Native

English: Fluent

IELTS Score: 8/9 Speaking 7.5 Listening 8.5 Reading 9 Writing 7

German: Elementary

Honors

- Achieved top 5% place among all applicants of the [Nationwide University Entrance Exam](#) for B.Sc. in Mathematics and Engineering (Approximately 160000 participants) Summer 2016
- Skipped a year of school as an exceptional talent Summer 2006

Teaching Experience

Microprocessors and Assembly Spring, Fall 2020 - Spring, Fall 2021

Teaching Assistant - Instructor: Dr. Hamed Farbeh

Algorithm Design Spring, Fall 2021

Teaching Assistant - Instructor: Dr. Alireza Bagheri

Research and Technical Presentation Fall 2021

Teaching Assistant - Instructor: Dr. Reza Safabakhsh

Publications

A Survey on Implementations of Adaptive AI in Serious Games for

Enhancing Player Engagement Fall 2021

Conference paper for ISGS2021, [DOI](#)

Microprocessor Lab Manual Fall 2019

For AUT's Computer Engineering Faculty, Microprocessor and Assembly Lab

Notable Coursework Projects

Advanced Programming Spring 2017

Base64 encoder implementation

Image manipulation (Java Swing GUI)

Battleship game (Swing, TCP-UDP)

Chat Messenger (Swing, TCP-UDP)

Data Structures and Algorithms Fall 2017

Implementing DFS, BFS and NDFA graph algorithms with Java

Computer Architecture Fall 2017

Spartan FPGA Target seeker with VHDL

Microprocessors and Assembly Fall 2019

Vending machine, Piezo piano, Electronic Voting machine (Arduino project)

Operating systems Fall 2019

Priority-based task scheduler - multiprocess communication chat (python)

Algorithm Design Fall 2020

Dividing graphs based on their adjacency list via Python

Computer Networks Spring 2021

Telnet Host and Client, DNS Resolver via Python

Database Design Spring 2019 - Lab: Spring 2021

A complex email client DB with MySQL

Web Design Fall 2021

JS API request frontend [Github](#)

RESTful API based on OpenAPI specs with Flask [Github](#)

ICTSecurity Fall 2021

IPrange scanner and port scanner using python-nmap

DVWA Vulnerability test

Reverse malware [Github](#)

Linear Algebra Spring 2021
Graph LU Decomposition [Github](#)
SVD Image Compression [Github](#)

Artificial Intelligence Fall 2021
Berkeley U's course Project: [Intelligent Pacman agent](#)
Phase 1: Search Agents [Github](#)
Phase 2: Multi Agent Adversarial Search [Github](#)

Computational Intelligence Fall 2021
A Convolutional Neural Network to classify the [fruit360](#) database [Github](#)
Fuzzy logic cart balancing problem [Github](#)
Neural Net Evolutionary Algorithm to optimize a pygame [Github](#)

Selected Courses

Microprocessor and Assembly: A+
Embedded and Real-Time systems: A+
Web: A+
Compilers: A
ICTSecurity: A
Logic Circuits: A
Data Structures: A
Database Design: A
Algorithm Design: A
Operating Systems: A
Differential Equations: A
Software Engineering: A
Software Engineering 2: A
Advanced Programming: A
Artificial Intelligence: A+
Computational Intelligence: A

References

Dr. Hamed Farbeh - Assistant Professor
- Computer Engineering Faculty, Amirkabir University of Technology
- farbeh@aut.ac.ir, - [Home Page](#)

Dr. Alireza Bagheri - Assistant Professor
- Computer Engineering Faculty, Amirkabir University of Technology
- ar_bagheri@aut.ac.ir, - [Home Page](#)

Dr. Reza Safabakhsh - Professor
- Computer Engineering Faculty, Amirkabir University of Technology
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Mr. Hamed Ghanadpour - Lecturer
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