Amirhossein Barari

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EDUCATION

B.Sc. in Computer Engineering 2016 - 2020
University of Tehran
- **Overall GPA:** 3.49/4 (16.79/20)
- **Last two-year GPA:** 3.78/4 (17.53/20)
- **Thesis Title:** Activity Recognition System Based on Mobile Sensors
- **Thesis Grade:** 19/20
- **Supervisor:** Dr. Kazim Fouladi

RESEARCH INTERESTS

- Artificial Intelligence/Machine Learning/Deep Learning
- Network Analysis
- Image Processing
- Data Science

AWARDS & HONORS

- Ranked within the top 3% among more than 162,000 participants in Iranian University Entrance Exam
- Full scholarship from University of Tehran (tuition waiver)

ACADEMIC PROJECTS

Activity Recognition System Based on Mobile Sensors | *Python, C++, pandas, Matplotlib, Sckit-learn, Qt*
- Bachelor's degree final project
- This Project consists of two main parts: Machine Learning and Application Develpment
- In the machine learning part, I used python language and its great libraries for data manipulation and data visualization and classification such as Pandas, Matplotlib and Sckit-learn.
- There are two applications for mobile and desktop in this project. I developed the desktop application with Qt which is based on C++ language.

Overlapping Community Detection | *C++*
- Big Data course final project
- Implementation of "Overlapping community detection at scale: A nonnegative matrix factorization approach" article in a group of 5 people.

Garam Puzzle | *Python*
- Artificial Intelligence course project
- a constraint satisfaction problem implemented in python

Wumpus World | *Prolog*
- Artificial Intelligence course project
- a popular problem implemented in prolog

Linux Shell | *C*
- Operating System Lab project
- a simple Linux shell implemented in C

Othello | *C++*
- Fundamentals of Computer and Programming course final project
- Othello game implemented in C++

Flight Booking System | *C++*
- Fundamentals of Computer and Programming course final project
- Flight booking system in terminal environment implemented in C++

Teaching Experience

Design of Algorithms Teaching Assistant   Fall 2018

University of Tehran

- **Course Professor:** Dr. Zahra Movahedi

Work Experience

Python Developer   June 2019 – Present

Mediasoft

- Using python language and frameworks like Django and Flask
- Write and Test APIs both functional and class-based with Django Rest framework
- Write scripts with python for web scrapping

Front-End Developer   Jan 2017 – Dec 2018

IranhomeTravel

- IranhomeTravel is a startup about accommodations of tourists that three of my colleagues and I started and We have been worked on it.
- Developed with common Front-End Technologies like HTML, CSS, Bootstrap and JS

Technical Skills

Languages: Python, C/C++, Prolog
Frameworks: Django, Flask, Qt
Libraries: NumPy, pandas, Matplotlib, Sckit-learn, OpenCV
Web/DB technologies: HTML, CSS, JavaScript, PostgreSQL

Language

Persian: Native
English: Fluent (IELTS: 7)