Borna Barahimi

✉ bornabarahimi@gmail.com
🖥 borna.id.ir
Google Scholar
in borna-barahimi
● bornabr
Skype: bornabarahimi
✉ borna.barahimi@ut.ac.ir

Research Interests

- AI, Machine Learning, and Deep Learning
- Health informatics and Diagnostic informatics
- Natural language processing
- Reinforcement learning and Multi-agent systems
- Bioinformatics and Computational Biology

Education

2018–2022 (Expected)	**B.Sc. Computer Science**, *University of Tehran (us news ranking: 387)*, Tehran, Iran, *CGPA: 3.55/4 (CGPA last four semester: 3.66/4)*.

Test Scores

English Proficiency	**IELTS Band Score 8 (L: 8.5, R: 8.5, W: 7, S: 7)**
GRE	Quant: 167, Verbal: 147, Writing: Not Reported Yet

Publications

- Cyrus 2d simulation team description paper 2019. RoboCup
- Fury 2d simulation team description paper 2016. RoboCup 2016 Symposium and Competitions: Team Description Papers, Leipzig, Germany

Awards and Honors

- Second Place in *Tehran Mental Health Electronics Startup Weekend 2019*, University of Tehran
- First place in Soccer Simulation League in *RoboCup Asia-Pacific 2018*, Kish, Iran
- Rank 389 among 145,000 participants in *the Iranian university entrance exam 2018* for bachelor's degree
- Second Place in Soccer Simulation League in *NasirCup2017*, K. N. Toosi University of Technology
- Participant in Soccer Simulation League in *RoboCup2017*, Nagoya, Japan
- Winner of The Technical Challenge in Soccer Simulation League in *IranOpen2017*, Tehran, Iran

- First place in Soccer Simulation League in *ShirazOpen2016*, Shiraz University of Technology
- *Best New Team* in Soccer Simulation League in *RoboCup2016*, Leipzig, Germany

Professional Experiences

July 2019 July 2021	**Backend Developer**, *VClinic*, Tehran, Iran. My responsibility was designing MongoDB databases especially the ones related to electronic health record, creating API services, educating interns, on boarding of new members, interviewing, and more.
Oct 2016 July 2019	**Robotics Programmer**, *Atomic Energy High School*, Tehran, Iran. I was responsible for designing and developing algorithms for simulated agents in order to make them behave properly in the simulated soccer field. We also used machine learning methods in some of our algorithms.

Teaching Experiences

Sep 2021 Present	**Teacher Assistant**, *University of Tehran*, Tehran, Iran. Theory of Computation Course
Aug 2020 Present	**Teacher Assistant**, *Karyar College*, Tehran, Iran. I taught underprivileged students programming (Python, C, HTML, CSS).

Volunteer Experiences

Aug 2020 Present	**Teacher Assistant Representative**, *Karyar College*, Tehran, Iran. I was responsible for holding TAs' meetings and participating in planning meetings to provide better technical education for students.
May 2019 Oct 2020	**Community Representative**, *Computer Science Academic Association, University of Tehran*, Tehran, Iran.

Notable Projects

Parkinson's disease detection	*Implementation of a classification model for detecting Parkinson's disease based on online handwriting records using self-supervised and transfer learning (in progress)*
Clique Classifier	*Implementation of a classifier based on a grid-based clustering algorithm*
Compiler Project	*Development of COOL programming language compiler*
Suffix Tree	*Implementation of a tool for working with suffix trees*

Skills

Programming Languages	Python, C++, R, LaTeX, Ruby, JavaScript, Bash
Databases	SQL, MongoDB, Redis
Web Development	Node.js, HTML5, CSS, Express.js, Docker, React.js, Ruby on Rails, JQuery, Webpack

Data Mining	numpy, pandas, scikit-learn, keras, TensorFlow
Industry Knowledge	Agile Development, Object-Oriented Programming (OOP), Web Development, Model-View-Controller (MVC), REST API Development, Design Thinking

Selected Courses

- Biology Meets Programming: Bioinformatics for Beginners: Coursera
- Compiler: A+
- Statistical Methods: A
- Data Structures and Algorithms: A
- Advanced Programming: A

- Data Mining: A+
- Database Management Systems: A+
- General Biology: A
- Design and Analysis of Algorithms: A

References

Mr. Nader Zare, *Teacher/Team Leader*, Team Leader of Cyrus RoboCup Team. Email: mailto:Nader.zare@dal.ca