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Borna Barahimi

Research Interests

- AI, Machine Learning, and Deep Learning
- Bioinformatics and Computational Biology
- Health informatics and Diagnostic informatics
- Natural language processing

Education

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

Publications

Amir Darijani, Aria Mostaejeran, Mohammad Reza Jamali, Aref Sayareh, Mohammad Javad Salehi, and **Borna Barahimi**. Fury 2d simulation team description paper 2016. **RoboCup 2016 Symposium and Competitions: Team Description Papers, Leipzig, Germany**, 7 2016. URL: https://archive.robocup.info/Soccer/Simulation/2D/TDPs/RoboCup/2016/FURY_SS2D_RC2016_TDP.pdf.

Nader Zare, Mahtab Sarvmali, Omid Mehrabian, Amin Nikanjam, Seyed Hossein, Aref Sayareh Khasteh, Omid Amini, **Borna Barahimi**, Arshia Majidi, and Aria Mostajeran. Cyrus 2d simulation 2019. **RoboCup 2019**, 2019. URL: http://archive.robocup.info/Soccer/Simulation/2D/TDPs/RoboCup/2019/CYRUS_SS2D_RC2019_TDP.pdf.

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

Language Proficiency

English IELTS exam will be taken in October
 Persian Native proficiency

Professional Experiences

July 2019 **Backend Developer**, *VClinic*, Tehran, Iran.
 July 2021 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 **Robotics Programmer**, *Atomic Energy High School*, Tehran, Iran.
 July 2019 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

Aug 2020 **Teacher Assistant**, *Karyar College*, Tehran, Iran.
 Present I taught underprivileged students programming (Python, C, HTML, CSS).

Volunteer Experiences

Aug 2020 **Teacher Assistant Representative**, *Karyar College*, Tehran, Iran.
 Present I was responsible for holding TAs meeting with each other and brainstorming for providing better technical education for student.
 May 2019 **Community Representative**, *University of Tehran*, Tehran, Iran, Computer Science Academic Association.
 Oct 2020

Notable Projects

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, Web-pack
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.
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