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# Borna Barahimi

## Research Interests

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

## Education

2018–2022 **B.Sc. Computer Science**, *University of Tehran* (*among Iran's three best universities*),  
(Expected) 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
- Forth place 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 **Backend Developer**, *VClinic*, Tehran, Iran.
- July 2021 Responsible for 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 Responsible for designing and developing algorithms for simulated agents in order to make them behave properly in the simulated soccer field

## Teaching Experiences

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

## Volunteer Experiences

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

## 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,  $\text{\LaTeX}$ , 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

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## 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

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## References

**Dr. Bagher Babaali**, *Assistant Professor*, College of Science, University of Tehran.  
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**Mr. Nader Zare**, *Teacher/Team Leader*, Team Leader of Cyrus RoboCup Team.  
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