

# Amin Nejatbakhsh

## Curriculum Vitae

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### EDUCATION

- 2011–Now **B.Sc. in Computer Engineering, Minor in Pure Mathematics,**  
*Sharif University of Technology.*
- Thesis: Design and implementation of a voice recognition system based on the rat's auditory system, under supervision of Prof. M. Soleymani-Baghshah.
  - GPA: 16.98/20 (3.57/4)
- 2007–2010 **Diploma in Physics and Mathematics Discipline,**  
*Allameh Tabatabaei High school.*

### HONORS AND AWARDS

- 2015 **Gold Medal,** in *22nd International Mathematical Competition (IMC)*, Blagoevgrad.
- 2015 **Gold Medal,** in *39th Iranian Mathematical Society Competition (IMS)*, Yazd.
- 2014 **Ranked 3/7,** in *13th International German Open Robocup*, Magdeburg.
- Member of Paaydar Team in 3D Soccer Simulation League.
- 2014 **Ranked 2/6,** in *3rd National Sharifcup Competition*, Tehran.
- Leader of Paaydar Team in Traffic Control League.
- 2013 **Ranked 9-16/32,** in *17th International Robocup*, Eindhoven.
- Member of Paaydar Team in 3D Soccer Simulation League.
- 2010 **Gold Medal,** in *28th Iranian National Mathematical Olympiad (INMO)*, Tehran.
- 2009 **Silver Medal,** in *27th Iranian National Mathematical Olympiad (INMO)*, Tehran.

### FIELDS OF INTEREST

**Computational Neuroscience.**  
**Visual Neuroscience.**  
**Machine Learning.**

### RESEARCH EXPERIENCE

- Current **Research Assistant in Prof. R. Lashgari's Vision-Neuroscience Lab,**  
Analyzing LFP signals to model V1 neurons.

### TEACHING EXPERIENCE

- Spring 2016 & Fall 2015 **Teaching Assistant for Engineering Probability and Statistics,**  
Instructor: Prof. H. Rabiee.
- Fall 2015 **Teaching Assistant for Modern Information Retrieval,**  
Instructor: Prof. M. Soleymani-Baghshah.
- Spring 2013 **Teaching Assistant for Linear Algebra,**  
Instructor: Prof. A. Ranjbar-Motlagh.
- Summer 2015 **Instructor of iOS Application Development Workshop.**

2009–Now **Instructor of Mathematical and Informatics Olympiad.**

## WORKING EXPERIENCE

- Fall 2015 **Employee of Software Development**, *Torob Company*.  
◦ Developed an automatic feature extraction and clustering system (Python, sickit-learn)
- 2012–2014 **Employee of Mobile Application Development**, *Hasin Company*.  
◦ Developed Taaghche and Gramophone iOS Applications (Objective-C)
- Summer 2010 **Employee of Marketing**, *Irem Company*.

## RELATED ATTENDED COURSES

- Current **Medical Neuroscience**, *Coursera: Duke University*,  
Instructor: Prof. Leonard E. White.
- Fall 2015 **Neuroscience**, *Sharif University of Technology*,  
Instructor: Prof. R. Lashgari, Grade: 20/20.
- Fall 2015 **Synapses, Neurons and Brains**, *Coursera: Hebrew University of Jerusalem*,  
Instructor: Prof. Idan Segev, Grade: 100/100.
- Spring 2015 **Computational Neuroscience**, *Coursera: University of Washington*,  
Instructors: Prof. Rajesh P. N. Rao and Prof. A. Fairhall, Grade: 92/100.
- Spring 2015 **Machine Learning**, *Sharif University of Technology*,  
Instructor: Prof. H. Rabiee, Grade: 19.3/20.
- Fall 2014 **Modern Information Retrieval**, *Sharif University of Technology*,  
Instructor: Prof. M. Soleymani-Baghshah, Grade: 19.3/20.
- Summer 2014 **Machine Learning**, *Coursera: Stanford University*,  
Instructor: Prof. Andrew Ng, Grade: 100/100.

## NOTABLE PROJECTS

Vision-Neuroscience Experimental Design Toolbox (Matlab, Psychtoolbox)  
Analyzing LFP Signals to Cluster V1 Neurons (Matlab)  
3D Soccer Simulation (C++)  
Vehicle Counting and Traffic Control System (C++, Opencv)  
Intelligent 2048 Game Player System (Prolog)

## TEST SCORES

- 11/29/2015 **Scored 99 in TOEFL iBT Exam**,  
Reading (27/30), Listening (21/30), Speaking (24/30), Writing (27/30).

## COMPUTER SKILLS

Programming Python, Matlab, Java, C, C++, Javascript, Prolog, Objective-C, Verilog  
Web Django, NodeJS, CSS, HTML  
Typesetting  $\LaTeX$ , Microsoft Office

## LANGUAGES

Persian Native  
English Fluent  
Azerbaijani Familiar

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## EXTRACURRICULAR ACTIVITIES

Spring 2015 **Gold Medal**, in Sharif University Basketball Championships Competition.

Fall 2014 **Technical Staff**, in Association Computing Machinery (ACM-ICPC) Competition.

2011–Now Member of Sharif University Mountain Climbing Group