

# Sepehr Rasouli Jazi

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[Webpage](#)



## EDUCATION

- **Amirkabir University of Technology (Tehran Polytechnic)** Tehran, Iran  
*B.Sc. in Software Engineering CGPA: 14.54/20  $\equiv$  B* 2013 – 2019  
[Ranked **#184** in Computer Science in the World & Top Ranked University in Iran - Us News Ranking]  
[Ranked **#489** in the World - QS Ranking]

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### Related Courses (GPA: 17.62/20 $\equiv$ A)

Artificial Intelligence	17.94	Engineering Statistics	17.5	Foundations of Data Mining	15.11
Principles of Comp. & Prog.(C/C++)	20	Software Engineering I	20	Software Engineering II	17
Research Method & Report Writings	19	Data Structures & Algorithms	15.8	Computer Graphics	17.5
Operating System Design	20	Computer Simulation	15.74	Technical English	20

- **Shahid Ejei High School (NODET)** Isfahan, Iran  
*Diploma in Mathematics and Physics GPA: 19.28/20* 2009 – 2013

## RESEARCH INTERESTS

- Machine Learning
- Image Processing
- Computational Neuroscience
- Cognitive Science

## TEACHING EXPERIENCE

- **Computer Engineering Department, Amirkabir University of Technology** Tehran, Iran  
*Teaching Assistant*
  - Technical English *fall 2014, spring 2015, fall 2016*
  - Software Engineering I *spring 2016*
  - Principles of Computers & Programming(C/C++) *fall 2014*
  - Operating System Design *fall 2014*
- **Pooyesh Language Institute** Isfahan, Iran  
*English Teaching Instructor* *June 2018 - Sep. 2018*

## RESEARCH & WORK EXPERIENCE

- **Espard IT Company** Tehran, Iran  
*Internship; Supervisor: Dr. Noorhoseini* *May 2017 - Sep. 2017*  
Android software development using real-time web technologies
- **Computer Engineering Department, Amirkabir University of Technology** Tehran, Iran  
*Research Assistant Internship; Supervisor: Dr. Nickabadi* *June 2016 - Oct. 2016*  
Image & video processing using CNNs with the application of processing CCTV Videos  
implementing a movement detection alarm system

## HONORS & AWARDS

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- **Top 0.6%** among approx. 300,000 participants; Iranian Nationwide University Entrance Exam in Mathematics and Physics *July 2013*
- **Top 100** among approx. 200,000 participants; Iranian Nationwide University Entrance Exam in Foreign Languages *July 2013*
- **Diploma of XXIV International Mathematical Tournament Of Towns [Diploma]** Teberda, Russia for maximal advances in project "Nash Equilibria"; Supervisor: Professor V. Gurvich *Aug. 2012*
- Accepted in the first round of Iranian National Olympiad in Informatics (INOI) *2011, 2012*
- Accepted in the first round of Iranian Mathematical Olympiad (IMO) *2012*

## NOTABLE COURSEWORK PROJECTS

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- **TOEFL Grammar Test App** - *B.Sc. project under supervision of Dr. Noorhoseini* [\[appstore link\]](#)  
An android application with 150 TOEFL grammar tests, using multiple mobile development technologies and design patterns, with 1k active users and a 4.4/5 rating coded in Java
- **Problem Solving Agent using Local Search & Genetic algorithms** - *Artificial Intelligence*  
A PSA solving various problems such as eight queens, shortest path & linear equation in Python
- **Healthcare System Database** - *Principles of Database Design*  
Design and implementation of a relational database for an integrated healthcare system in Python and MySQL
- **Unsupervised Learning Project** - *Foundations of Data Mining*  
Association rule mining using regression & classification in Python
- **Airport Queuing Simulator** - *Computer Simulation*  
Simulation of queuing and gate control at Imam Khomeini International Airport using Arena simulation software

## PRESENTATIONS

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- **Image Classification with Neural Networks** - *Research Method & Report Writings* [\[pdf\]](#)
- **Data Mining in FMRI data** - *Data Mining* [\[pdf\]](#)
- **Brain Simulation** - *Computer Simulation* [\[pdf\]](#)
- **Real-time Web Apps** - *Internet Engineering* [\[pdf\]](#)
- **Software Design & Development for Learning English Grammar** - *B.Sc. Thesis Presentation* [\[pdf\]](#)

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Matlab, C/C++, Java, Assembly
- **Web Development:** HTML, CSS, PHP, JS
- **Technologies:** Git, MySQL, Android SDK
- **Frameworks:** Scikit, Pandas, NumPy, OpenCV

## ONLINE COURSES

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- **Cellular Mechanisms of Brain Function** by Carl Petersen (EPFLx) [\[certificate\]](#) *Dec. 2019*
- **Machine Learning** by Andrew Ng (Stanford University) [\[certificate\]](#) *Nov. 2019*
- **Neuronal Dynamics** by Wulfram Gerstner (EPFLx) [\[certificate\]](#) *Oct. 2019*
- **Computational Neuroscience** by Rajesh Rao (University of Washington) [\[certificate\]](#) *Oct. 2019*
- **Medical Neuroscience** by Leonard E. White (Duke University) *studying*
- **Fundamental Neuroscience for Neuroimaging** by Arnold Bakker (Johns Hopkins) *studying*

## CONFERENCES & WORKSHOPS

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- EuSoMII Academy of Artificial Intelligence in Medical Imaging, Tehran [\[certificate\]](#) *Nov. 2019*
- AI in Neuroimaging Workshop using Matlab, National Brain Mapping Lab [\[certificate\]](#) *Nov. 2019*
- 6th Iranian Human Brain Mapping Congress, Shahid Beheshti University *Oct. 2019*
- 7th Basic and Clinical Neuroscience Congress, Iran University of Medical Sciences *Dec. 2018*
- Practical Workshop on Neural Modeling, NBML *Oct. 2018*

## LANGUAGES

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**Persian**(Native), **English**(Fluent), **French**(Intermediate; A2 level), **Arabic**(Fair)

TOEFL (09 Nov 2019): R:27/30 L:27/30 S:27/30 W:24/30 - Total: **105/120**

TOEFL (09 Dec 2017): R:26/30 L:28/30 S:29/30 W:24/30 - Total: **107/120**

## VOLUNTEER EXPERIENCE

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- English Club President & English Free Discussion Class Group Leader; Amirkabir University of Technology

## REFERENCES

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- **Seyed Majid Noorhosseini**, Assistant Professor  
Computer Engineering and IT Department,  
Amirkabir University of Technology  
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- **Alireza Bagheri**, Associate Professor  
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- **Seyed Mostafa Siadatmousavi**, Associate Professor  
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