

Saleh Khazaei Fadafan

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Github, LinkedIn

- EDUCATION**
- Bachelor of Computer Engineering* 2012 - 2017
Amirkabir University of Technology - Tehran Polytechnic
GPA:15.86/20 (Grades are available at [here](#))
Thesis: Remote Programming FPGA using a Raspberry Pi
 - Diploma of Mathematics and Physics Discipline* 2012
Hashtrودي High school
GPA: 17.87/20
- AWARDS & HONORS**
- **3rd place**, Amirkabir 2nd Game Programming competitions 2013
 - **2nd place**, Elecit 2D Soccer Simulation competitions 2012
 - **5th place**, PNUOpen National Robotic competitions 2011
 - **3rd place**, Amirkabir 2ndInternational Robotic Competitions 2010
 - **3rd place**, 12th Khwarizmi National Robotic Competitions 2010
(Certificates are available at my website)
- WORK EXPERIENCES**
- **Scaling Engineer @ Bale** 2016 - 2017
 - I designed and developed a high performance and highly scalable file server called Cozet. It can transfer about 14Gb/s per node (of course disks and network would be bottlenecks) and it supports multi-part upload and download to achieve better experience and it works both on HTTP protocol and it's own designed protocol (S3 support for the future).
 - **Freelancer** 2014 - 2016
 - Back-end developer (PHP, Java)
 - I designed a simulation system and an AI for an android soccer game (Java)
 - **Backend Developer @ Medrick Game studio** 2014
 - We implemented an extension for cocos2d which caused reducing memory usage by 66%. (C++)
 - **Software Developer @ Amnpardaz** 2012 - 2013
 - I developed a windows application which locks/unlocks windows using face recognition. (C++, MFC)

NOTABLE PROJECTS

- **Spectral Representations for Convolutional Neural Networks**
Python implementation of Spectral Representations for Convolutional Neural Networks (O. Rippel, J. Snoek & R. P. Adams, 2015) Python, 2015
- **Text Classification**
A java code for text classification using naive bayes model. It achieved 80% accuracy in 20_newsgroups dataset. Java, 2016
- **GNP**
GNP is an application for using more bandwidth than you are limited to. Using this application, I could achieve 12MB/sec on a network which was limited to 300KB/s. Java, 2015
- **Linkedin Crawler**
A simple code to crawl linkedin profiles and extract usefull informations. Java, 2016
- **Instagram Crawler**
A simple code to crawl instagram pictures and profiles and extract usefull informations. Java, 2016
- **Image Segmentation**
Image Segmentation using PGMs (Naive Bayes and Markov Random Field). Matlab, 2016
- **LDA - GibbsSampling**
Learning and inference LDA models using Gibbs sampling. Java, 2016
- **Health Center System**
Design and implementation of health center system database and an interface to interact with it. MySQL, PHP, 2016
- **Golpush S**
A web service for a dress store to find customer's demands and offering dresses to them. Using this web service, customers could choose and find the dress they wanted from more than 500 models in a few seconds. PHP, JS, 2013
(Please refer to my website for complete list of projects)

SKILLS

- *Language Proficiency:* Persian (native), English (fluent)
 - **IELTS(Academic): 7/9**
Listening (7.5/9), Reading (7.5/9), Writing(6.5/9), Speaking (6.5/9)
 - **GRE(General):**
Quantitative Reasoning (165), Verbal Reasoning (145), Analytical Writing(3.0)
- *Programming Languages:* Expert in Java, Scala, C++, Familiar with Python, Matlab, VHDL, Assembly (AVR), Haskell
- *Frameworks & Tools:* Good with Akka, Elasticsearch
- *Operating Systems:* Expert in MS-Windows, GNU Linux (Ubuntu, Fedora)
- *Web Development:* PHP, JavaScript, JQuery, HTML, CSS
- *Databases:* Cassandra, Redis, PostgreSql, MySQL
- *Engineering Tools:* Matlab, Proteus, CodeVision AVR, PSpice, HSpice
- *Typesetting:* Microsoft Word, LATEX
- *Miscellaneous:* Git, Vim, Gradle, Sbt, IntelliJ, NetBeans, Visual Studio, Zab-bix, Grafana, Graylog, VMWare ESX

**RESEARCH
INTRESETS**

Large scale and Distributed systems
Distributed Machine Learning
Neural networks
Deep learning
Computer vision

**RESEARCH
EXPERIENCE**

Convolutional Neural Networks for Image Classification
Summer 2015
CNN Group, Amirkabir University of Technology

Technical Documents

- Internship report - Convolutional Neural Networks 2015
- Scorpious 3D Soccer simulation team description paper, PNUOpen 2013
- AKATSUKI 2D Soccer simulation team description paper, Khwarazmi 2011
- GRCG 2D Soccer simulation team description paper 2011
- GRCG WarGame simulation team description paper, AUTCUP 2010
- GRCG 2D Soccer simulation team description paper 2010

MEMBERSHIP

- *RESEARCH GROUP MEMBER*
 - *CNN Group*, A research group that focuses on Convolutional Neural Networks 2015
 - *Vision++*, A research group with focus of image processing methods 2013
- *EXECUTIVE COMMITTEE MEMBER*
 - *ARAIIF*, Amirkabir University Artificial Intelligence Competitions 2012
- *TEAM MEMBER*
 - *Scorpious*, Amirkabir Universitys 3D Soccer Simulation Team 2013
 - *Akatsuki*, Akatsuki 2D Soccer Simulation team 2012
 - *GRCG*, 2D Soccer Simulation team 2009-2012

REFRENCES

- Mr. Hossein Ansari @ Bale
Email: hossein.ansari@gmail.com
- Mr. Alireza Ashayar @ Medrick
Email: progade@gmail.com
- Mr. Arash Abdi @ Amnpardaz
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