

# ParhamAlvani

## Senior Undergraduate Student of Software Engineering

### contact

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### languages

Persian (Farsi):  
Native proficiency  
English:  
Elementary proficiency

### programming

♥ C, Go  
Python3, PHP  
AMD64 Assembly,  
AVR Assembly,  
Java SE, Java EE  
CSS3 & HTML5

### projects

 Github

### last-update

January 29, 2016

### education

2013–2017 **Bachelor** of Computer Software Engineering Amirkabir University of Technology  
Current GPA: 19.18/20 (87 Unit)  
2009–2013 **High School**, Diploma of Math & physics Energy Atomic High School  
GPA: 19.45/20

### honors & awards

2015 Eligible to choose **second major** due to outstanding performance  
Spring 2015 Awarded as an Outstanding Student by the head of Computer Engineering and Information Technology department, Amirkabir University of Technology  
Spring 2015 **3rd** Place in 1st National Digital Design Contest of Iran CoDesign League as a Member of *Polytechnic* team  
Fall 2014 **3rd** Place in 14th Amirkabir ACM ICPC as a Member of *703* team  
Fall 2014 Participated in 39th Asia Region ACM ICPC in Sharif University of Technology as a Member of *703* team  
2013 Ranked in top 0.6% of Nation-wide University Entrance Exam among all Iranian Students of Math. & Physics  
2010~2012 **Semi-finalist** at National Mathematics and Computer Olympiads  
2010 Earned **Merit Medal** in International Mathematics Competition (IMC) Icheon, South Korea  
2006-2009 Member of National Organization for Development of Exceptional Talents (NODET)

### research experience

2015-present **Department-wide platform for IoT and building management systems**  
under supervision of Prof.Bakhshi, Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran.  
Research on different operating systems, frameworks and protocol stacks in IoT

### skills & expertise

- **Unfamiliar Programming Languages**  
SML, Lisp, Haskell
- **Hardware Design Languages**  
Verilog HDL, VHDL, Spice
- **Networking Tools and Protocols**  
ONOS Platform, FloodLight, Ryu, Mininet, GNS3, Wireshark, Cisco Packet Tracer, OpenFlow1.3
- **Typesetting**  
L<sup>A</sup>T<sub>E</sub>X, Microsoft Word, LibreOffice, Pages, Vim
- **Hardware Simulators**  
Xilinx Vivado Design Suite, P-Spice, H-Spice, Proteus, Quartus II
- **DB Management Systems**  
MySQL, PostgreSQL, MongoDB
- **Operating Systems**  
Ubuntu, Ubuntu Server, CentOS, OS X, Windows, Windows Server 2012
- **Other**  
Netbeans, IntelliJ, Eclipse, Octave, Matlab
- **Programming Framework**
  - C Frameworks**
    - CGI Programming
    - BSD Socket Programming
    - UNIX System Programming
    - GTK
    - Gnome
  - Java Frameworks**
    - Maven
    - Log4j
    - JPA(Java Persistence API)
    - Hibernate
    - JSP
    - JSF

teaching experiences

Fall 2014	<b>Introduction to Programming</b> Amirkabir University of technology, Under Supervision of Prof.Bakhshi.	Teacher Assistant
Spring 2015	<b>Advance Programming</b> Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.	Teacher Assistant
Spring 2015	<b>Discrete Mathematics</b> Amirkabir University of technology, Under Supervision of Prof.Fallah.	Teacher Assistant
Spring 2015	<b>Introduction to Python Programming</b> 7th Amirkabir Linux Festival, Python Workshop	Instructor
Fall 2015	<b>Introduction to Programming</b> Amirkabir University of technology, Under Supervision of Prof.Bakhshi.	Teacher Assistant
Spring 2016	<b>Advance Programming</b> Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.	Teacher Assistant
Spring 2016	<b>Principles of Database Design</b> Amirkabir University of technology, Under Supervision of Prof.Momtazi.	Teacher Assistant
Spring 2016	<b>Microprocessor I</b> Amirkabir University of technology, Under Supervision of Prof.Homayounpour.	Teacher Assistant
Spring 2016	<b>Engineering Statistics and Probability</b> Amirkabir University of technology, Under Supervision of Prof.Amir Haeri.	Teacher Assistant

## graduate courses

Fall 2015	<b>Advanced Computer Networks</b>	Professor Siavash Khorsandi
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## certifications

- CompTIA Network+
- Supporting Windows 8.1(70-688)
- Installing and Configuring Windows Server 2012(70-410)
- Administering Windows Server 2012(70-411)
- Configuring Advanced Windows Server 2012 Services(70-412)
- Designing and Implementing a Server Infrastructure(70-413)
- Implementing an Advanced Server Infrastructure(70-414)
- LPIC-1(101-102)
- LPIC-2(201-202)
- Cisco CCENT

## interests

### professional:

- Internet of Things (IoT)
- Software Defined Networking (SDN)
- Network Function Virtualization (NFV)
- Kernel Hacking

- Graph Theory
- Mathematical Analysis

**personal:**

- Chess
- Running