

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 30, 2016

interests

professional:

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

personal:

- Chess
- Running

education

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

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 Achieved **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 **Semi-finalist** at National Mathematics and Computer Olympiads
- 2011 **Semi-finalist** at National Mathematics and Computer Olympiads
- 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^AT_EX, 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	Introduction to Programming Amirkabir University of technology, Under Supervision of Prof.Bakhshi.	Teacher Assistant
Spring 2015	Advance Programming Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.	Teacher Assistant
Spring 2015	Discrete Mathematics Amirkabir University of technology, Under Supervision of Prof.Fallah.	Teacher Assistant
Spring 2015	Introduction to Python Programming 7th Amirkabir Linux Festival, Python Workshop	Instructor
Fall 2015	Introduction to Programming Amirkabir University of technology, Under Supervision of Prof.Bakhshi.	Teacher Assistant
Spring 2016	Advance Programming Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.	Teacher Assistant
Spring 2016	Principles of Database Design Amirkabir University of technology, Under Supervision of Prof.Momtazi.	Teacher Assistant
Spring 2016	Microprocessor I Amirkabir University of technology, Under Supervision of Prof.Homayounpour.	Teacher Assistant
Spring 2016	Engineering Statistics and Probability Amirkabir University of technology, Under Supervision of Prof.Amir Haeri.	Teacher Assistant

graduate courses

Fall 2015	Advanced Computer Networks	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