

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^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

interests

professional:

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

- Graph Theory
- Mathematical Analysis

personal:

- Chess
- Running