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 Current GPA: 19.18/20 (87 Unit)	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	**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**
  LaTeX, 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**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Bakhshi.

Spring 2015	**Advance Programming**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.

Spring 2015	**Discrete Mathematics**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Fallah.

Spring 2015	**Introduction to Python Programming**	Instructor

7th Amirkabir Linux Festival, Python Workshop

Fall 2015	**Introduction to Programming**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Bakhshi.

Spring 2016	**Advance Programming**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Noorhosseini.

Spring 2016	**Principles of Database Design**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Momtazi.

Spring 2016	**Microprocessor I**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Homayounpour.

Spring 2016	**Engineering Statistics and Probability**	Teacher Assistant

Amirkabir University of technology, Under Supervision of Prof.Amir Haeri.

graduate courses

Fall 2015	**Advanced Computer Networks**	Professor Siavash Khorsandi

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