

ParhamAlvani

Junior Undergraduate Student of Software Engineering



contact

Amirkabir University of
Technology,
Hafez Ave,
Tehran, Iran

+98 (939) 090 9540
+98 (21) 8802 13311

parham.alvani@gmail.com
parham.alvani@aut.ac.ir
<http://1995parham.me>

languages

Persian (Farsi):
Native proficiency
English:
Limited working
proficiency

programming

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

projects

 Github

last-update

January 20, 2017

interests

professional:

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

personal:

- Chess
- Running

education

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|-----------|--|------------------------------------|
| 2013–2017 | Bachelor of Computer Software Engineering Cumulative GPA: 18.96/20 (109 Units) | Amirkabir University of Technology |
| 2009–2013 | High School , Diploma of Math & Physics GPA: 19.45/20 | Energy Atomic High School |

honors & awards

- Spring 2016 Achieved 2nd Place in 3rd National Digital Design Contest of Iran ASIC League as a Member of Polytechnic team
- Spring 2016 Achieved 3rd Place in 3rd National Digital Design Contest of Iran CoDesign League as a Member of Polytechnic team
- 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 2nd National Digital Design Contest of Iran CoDesign League as a Member of Polytechnic team
- Fall 2014 Achieved 3rd Place in 14th Amirkabir ACM International Collegiate Programming Contest (ICPC) as a Member of 703 team
- Fall 2014 Participated in 39th Asia Regional ACM International Collegiate Programming Contest (ICPC) in Sharif University of Technology as a Member of 703 team
- 2013 Ranked in 0.2% among more than 251,956 participators in Nation-wide University Entrance Exam among all Iranian Students of Math. & Physics
- 2012 **Semi-finalist** at National Mathematics and Computer Olympiads
- 2011 **Semi-finalist** at National Mathematics and Computer Olympiads
- 2010 **Semi-finalist** at National Mathematics and Computer Olympiads
- 2010 Achieved Merit Award in the 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, AoLab

Research on different operating systems, frameworks and protocol stacks in IoT

2016–present **Middleware platform for IoT based on agent based approach**

Under

supervision of Prof. Bakhshi, AoLab

Research and develop I1820 platform

Spring 2016 **Resource Provisioning in Software Defined Networking**

P. Alvani

This research was done for Research Method and Technical Writings course

work experience

Summer 2016 **IoT hardware and software developer** Iranian Telecommunication Research Center

ITRC, Tehran, Iran

Summer internship in the country's leading research center of telecommunication network systems

skills & expertise

- **Functional Programming Languages**
SML, Lisp, Haskell
- **Hardware Definition 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, Microsoft SQL Server
- **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

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| Fall 2014 | Principles of Computer and Programming Amirkabir University of technology, Under Supervision of Prof. Bakhshi. | Teaching Assistant |
| Spring 2015 | Advance Programming Amirkabir University of technology, Under Supervision of Prof. Noorhosseini. | Teaching Assistant |
| Spring 2015 | Discrete Mathematics Amirkabir University of technology, Under Supervision of Prof. Fallah. | Teaching Assistant |
| Spring 2015 | Introduction to Python Programming 7th Amirkabir Linux Festival, Python Workshop | Instructor |
| Fall 2015 | Principles of Computer and Programming Amirkabir University of technology, Under Supervision of Prof. Bakhshi. | Teaching Assistant |
| Spring 2016 | Advance Programming Amirkabir University of technology, Under Supervision of Prof. Noorhosseini. | Teaching Assistant |
| Spring 2016 | Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Momtazi. | Teaching Assistant |
| Spring 2016 | Microprocessor I Amirkabir University of technology, Under Supervision of Prof. Homayoun-pour. | Teaching Assistant |
| Spring 2016 | Engineering Statistics and Probability Amirkabir University of technology, Under Supervision of Prof. Amir Haeri. | Teaching Assistant |
| Fall 2016 | Principles of Computer and Programming Amirkabir University of technology, Under Supervision of Prof. Bakhshi. | Teaching Assistant |
| Fall 2016 | Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Amir Haeri. | Teaching Assistant |
| Fall 2016 | Data Structure Design Amirkabir University of technology, Under Supervision of Prof. Dehghan. | Teaching Assistant |
| Spring 2017 | Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Momtazi. | Teaching Assistant |
| Spring 2017 | Computer Architecture Amirkabir University of technology, Under Supervision of Prof. Shiri. | Teaching Assistant |

graduate courses

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| Fall 2015 | Advanced Computer Networks | Professor 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