# Parham Alvani

Senior 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.github.io

## languages

Persian (Farsi):
Native proficiency
English:
Elementary proficiency

## programming

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

## last-update

January 29, 2016

## education

| 2013–2017 | **Bachelor** of Computer Software Engineering<br>Current GPA: 19.18/20 (87 Unit) | Amirkabir University of Technology |
| 2009–2013 | **High School,** Diploma of Math & physics<br>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**<br>under supervision of Prof.Bakhshi, Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran.<br>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