ParhamAlvani

Junior Undergraduate Student of Software Engineering



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parham.alvani@gmail.com parham.alvani@aut.ac.ir

http://1995parham.github.io 2013–2017

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 10, 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

Bachelor of Computer Software Engineering Amirkabir University of Technology

Energy Atomic High School

Cumulative GPA: 18.96/20 (109 Units)

2009–2013 **High School,** Diploma of Math & Physics

GPA: 19.45/20

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
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	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, Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran.

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

2016-present **Middleware solution for IoT**

under supervision

of Prof.Bakhshi, Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran.

Research and development on I1820 platform

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

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, 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

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

graduate courses

Fall 2015 Advanced Computer Networks

Professor 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