ParhamAlvani

MSc. Student of Computer Networks



Contact Amirkabir University of Technology, Hafez Ave, Tehran, Iran

parham.alvani@gmail.com parham.alvani@aut.ac.ir 1995parham.github.io

languages Persian (Farsi): Native proficiency English:

Limited working proficiency

programming

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

projectsGithub

last-update July 30, 2019

interests

professional:

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

personal:

2017-2019

• Chess

education

	GPA: 18.85/20	
2013–2017	Bachelor of Computer Software Engineering GPA: 18.94/20	Amirkabir University of Technology
2009–2013	High School, Diploma of Math & Physics GPA: 19.45/20	Energy Atomic High School

Amirkabir University of Technology

Master of Computer Networks

honors & awards

Summer 2017	Qualified to Direct Admission to graduate school (M.Sc.) of Computer Engineering and IT Department, AUT
Summer 2016	Achieved 10th Place in Final National Scientific Olympiad in Computer Engineering
Spring 2016	Achieved 4th Place in Semi-Final National Scientific Olympiad in Computer Engineering
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

M.Sc. Project

of Prof.Bakhshi Maximize profit optimization problem for accepting SFCs and provides VNFMs for them General purpose IoT platform, design for scalability B.Sc. Project Under supervision of Prof.Sabaei Research and develop Distributed, Docker based IoT Platform named Bam-Department-wide platform for IoT and building management systems 2015-2016 Under supervision of Prof.Bakhshi, AoLab Research on different operating systems, frameworks and protocol stacks in 2016-2017 Under

Middleware platform for IoT based on agent based approch

supervision of Prof.Bakhshi, AoLab Research and develop I1820

Resource Provisioning in Sotfware Defined Networking Spring 2016

This research was done for Research Method and Technical Writings course

SFC Requests Admission Control by Considering VNFMs Under supervision

work experience

IoT hardware and sotfware developer Iranian Telecommunication Reseach Center Summer 2016

Summer internship in the country's leading research center of telecommuni-

cation network systems

2017-2018 **LoRa enabled platform for smart agriculture** IoT Working Group of Amirkabir

> University of Technology, Tehran, Iran System Architect and Developer

Software Engineer Feb 2019-now

Snapp Inc. Tehran, Iran

P. Alvani

extra-curricular activity

Scientific Director Spring 2016

Linux Festival

Fall 2016 **Techinal Team Member**

ACM ICPC

Scientific Director Spring 2017

Linux Festival

Head of Technical Team Fall 2017

ACM ICPC

Head of Technical Team Fall 2018

ACM ICPC

Spring 2019 **Head of Technical Team**

Amirkabir Programming League

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, OpenFlow1.5

Typesetting

ETFX, 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 Desktop, Ubuntu Server, CentOS, OS X, Windows, Windows Server 2012, VMware vSphere 6.5

Othe

Netbeans, IntelliJ, Eclipse, Octave

Frameworks

Virtualization Frameworks

- Docker
- Docker Compose
- OpenVSwitch

C Frameworks

- CGI Programming
- BSD Socket Programming
- UNIX System Programming
- GTK
- Gnome

Java Frameworks

- Maven
- Log4i
- JPA (Java Persistence API)
- Hibernate
- JSP
- JSF

teaching experiences

Fall 2014, 2015, 2016, 2017, 2018, Spring 2019	Principles of Computer and Programming Amirkabir University of technology, Under Supervision	Teaching Assistant of Prof. Bakhshi.
Spring 2015, 2016, 2018	Advance Programming Amirkabir University of technology, Under Supervision	Teaching Assistant 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	Instructor
Spring 2016, 2017	Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Momtazi.	
Spring 2016, 2018, 2019, Fall 2018	Microprocessor I Amirkabir University of technology, Under Supervision pour.	Teaching Assistant n of Prof. Homayoun-
Spring 2016	Engineering Statistics and Probability Amirkabir University of technology, Under Supervision of Prof. Amir Haeri.	
Spring 2016	Introduction to Golang Programming 8th Amirkabir Linux Festival, Go Workshop	Instructor
Spring 2016	IoT and IPv6 8th Amirkabir Linux Festival	Speaker
Fall 2016	Principles of Database Design Amirkabir University of technology, Under Supervision	Teaching Assistant of Prof. Amir Haeri.
Fall 2016, 2017	Data Structure Design Amirkabir University of technology, Under Supervision	Teaching Assistant of Prof. Dehghan.
Spring 2017	Computer Architecture Amirkabir University of technology, Under Supervision of Prof. Shiri.	
Spring 2017	Introduction to IoT Platform 2nd Iran IoT Conference, Platform Workshop	Instructor
Spring 2017	Golang, The Future of C 9th Amirkabir Linux Festival	Speaker
Spring 2017	I 1820, The IoT Platform 9th Amirkabir Linux Festival	Speaker
Summer 2017	Advanced Python Programming SSC IoT Summer Course	Instructor
Summer 2017	An Introduction to IoT Platforms SSC IoT Summer Course	Instructor
Spring 2018, Fall 2018	Computer Networking Amirkabir University of technology, Under Supervision of Prof. Sabaei.	
Spring 2018	Microprocessor Lab Amirkabir University of technology, Under Supervision of Prof. Homayounpour.	
Spring 2018, 2019, Fall 2018	Computer Networking Lab Amirkabir University of technology, Under Supervision	Instructor of Prof. Sabaei.

Spring 2018 Advance Programming Lab
Amirkabir University of technology, Under Supervision of Prof. Noorhosseini.

Spring 2018 **Operating System Lab**Amirkabir University of technology, Under Supervision of Prof. Zarandi.

Instructor

graduate courses

Fall 2015 Advanced Computer Networks Professor Khorsandi

Spring 2017 Computer Networks Management Professor Bakhshi

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
- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Optimize and Scale