ParhamAlvani

MSc. Student of Computer Networks



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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
JS

projectsGithub

last-update December 28, 2018

interests

professional:

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

personal:

2017-2019

• Chess

education

	GPA: 18.77/20	
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

141.50. 1 10,000	Si e requests remission control by considering the ris onder supervision
	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-

SEC Requests Admission Control by Considering VNEMs. Under supervision

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

Middleware platform for IoT based on agent based approch 2016-2017

Under supervision of Prof.Bakhshi, AoLab

P. Alvani

Research and develop I1820

Resource Provisioning in Sotfware Defined Networking Spring 2016

This research was done for Research Method and Technical Writings course

work experience

Summer 2016 IoT hardware and sotfware developer Iranian Telecommunication Reseach Center

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

extra-curricular activity

Scientific Director Spring 2016

Linux Festival

Techinal Team Member Fall 2016

ACM ICPC

Spring 2017 Scientific Director

Linux Festival

Head of Technical Team Fall 2017

ACM ICPC

Head of Technical Team Fall 2018

ACM ICPC

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, Microsoft SQL Server

Operating Systems

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

Othe

Netbeans, IntelliJ, Eclipse, Octave, Matlab

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	Principles of Computer and Programming Amirkabir University of technology, Under Supervision of Prof. Bakhshi.	:
Spring 2015, 2016, 2018	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	-
Spring 2016, 2017	Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Momtazi.	-
Spring 2016, 2018, Fall 2018	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.	-
Spring 2016	Introduction to Golang Programming 8th Amirkabir Linux Festival, Go Workshop	-
Spring 2016	IoT and IPv6 Speaker 8th Amirkabir Linux Festival	-
Fall 2016	Principles of Database Design Amirkabir University of technology, Under Supervision of Prof. Amir Haeri.	-
Fall 2016, 2017	Data Structure Design Amirkabir University of technology, Under Supervision 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	-
Spring 2017	Golang, The Future of C 9th Amirkabir Linux Festival	-
Spring 2017	11820, The IoT Platform 9th Amirkabir Linux Festival	
Summer 2017	Advanced Python Programming SSC IoT Summer Course	
Summer 2017	An Introduction to IoT Platforms SSC IoT Summer Course	
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. Homayoun-pour.	
Spring 2018, Fall 2018	Computer Networking Lab Amirkabir University of technology, Under Supervision 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