

Benyamin Eslami

Address

Electrical and Computer engineering
University of Tehran
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Contact

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EDUCATION

Master of Science, Computer Architecture

University of Tehran, Tehran, Iran

Sep 2017 - Nov 2019

THESIS: Improving data center traffic pattern using VM locality approach
in Service Chaining Deployments

Bachelor of Science, Computer Hardware Engineering

Isfahan University of Technology, Isfahan, Iran

Sep 2011 - Sep 2016

THESIS: Smart Building System Design and implementation

RESEARCH INTEREST

- **Computer Networking**

Data Center Networking, System Software Implementation, Core Network Technologies, router and switch architecture, SDN and NFV

- **Operating Systems**

virtualization, Methods of parallelism across hardware and within software systems, Kernel architecture

- **Distributed Systems**

RPC, Distributed Systems architecture

PROFESSIONAL EXPERIENCE

Developer Intern in Data Center Laboratory at ITRI, Hsinchu, Taiwan

summer 2018

- Implementing a Global Software Load Balancer (GSLB) in OpenStack using Python.
- Advisors: Dr.Christopher Lee and Robert CC Huang

Network Developer in Dadeh Imen Gostar-e Tadbir(DiGT)

Sep, 2017 - Nov, 2019

- I work as a System Software Engineer to design and implement high capacity routers and switches and data center networking.
- Advisor: Dr. Nasser Yazdani

Developer Intern at Gorgan Telecommunication center

summer 2015

- Cisco Systems Admin.

Network Researcher in IT-center at Isfahan university of Technology.

Sep 2014 – December 2015

- Cisco Systems Admin and maintainer.

ACADEMIC EXPERIENCE

- **Teaching Assistant** ,*Advanced Computer Networks*, Prof. Nasser Yazdani, Designed and corrected assignments and help the tutor in grading students, University of Tehran.

Fall 2019

HONORS AND AWARDS

- Received **job offer for a PhD program** from MOSA!C Lab under the supervision of **Prof. Tarik Taleb** at **University of Aalto** (Espoo, Finland) Oct. 2019
- Received **job offer for a PhD program** from CISPA Lab under supervision of Dr. Hamed Nemati and Dr. Hamid Ghaeini at Helmholtz Institute (Saarbrücken, Germany) Oct. 2019
- Received **invitation for a fellowship** as a visiting scholar at the **Max Planck Institute for Software Systems** under supervision of **Dr. Keon Jang** (Saarbrücken, Germany) Nov. 2019
- **Ranked** Top 0.6% among more than 260000 participants in Iranian Undergraduate nationwide entrance exam for B.Sc. 2011

- **Ranked** 170 among more than 35000 participants in Iranian Undergraduate nationwide entrance exam for M.Sc. 2017
- **Awarded** as a distinguished student in Waterloo Mathematical Olympiad in 2009. 2009
Waterloo Mathematical Olympiad is a contest that is held every year around the world. Association of young mathematician send their three best teams to the international contest which is held in Canada.
- **Accomplishment** in university of Tehrans Network+ course 2012
- **Accomplishment** in Metaco Training Centers cisco CCNA course in Isfahan. 2012

NOTABLE PROJECTS

- **Advanced Programming**
Client/Server GUI chat program development
Web browser development.
- **Digital Design**
Design and implementation of ALU using CPLD, Supervisor: Dr. Nader Karimi
- **Computer Architecture**
Design and implementation of MIPS processor with FPGA, Supervisor: Prof.Shadrokh Samavi
- **Microprocessor**
Design and implementation of a calculator using AVR, Supervisor: Dr. Mehran Safayani
- **Hardware Description Languages**
Design and implementation of graphical PONG game using FPGA and VGA interface, Supervisor: Dr. Ehsan Yazdani
- **Interface Circuit Design**
Design and implement USB to RS232 converter, Supervisor: Dr. Majid Nabi
- **E-Commerce**
Implementation of a simple website for sport supplement market, Supervisor: Dr. Hasan Samadani
- **MPLS/L3VPN**
Design and implementation of L3VPN. This project is done as a network core service for high capacity router which has been implemented in RouterLab (DiGT), Advisor: Prof. Nasser Yazdani
- **VPLS**
Implementation of VPLS in high capacity router. his project is done as a network core service for high capacity router which has been implemented in RouterLab (DiGT), Advisor: Prof. Nasser Yazdani
- **GSLB (Global Software Load Balancer)**
Design and implementation of Geolocation aware DNS for OpenStack environment, Advisors: Dr. Christopher Lee and Robert CC Huang.
- **SDDC(Software Defined Data Center)**
Implementation and integration of Openstack with OpenDayLight controller for better physical resource management. Advisor: Dr. Omid Fatemi
- **QoS in high speed data plane**
Integration of QoS service in VPP (data-plane software package) with FRRouting (control-plane software package). This project is done as a network core service for high capacity router which has been implemented in RouterLab (DiGT), Advisor: Prof. Nasser Yazdani

PUBLICATIONS

- A.Mahjoubi, O.Zeynalpour, **B.Eslami**, N.Yazdani, "[LBFT: Load Balancing and Fault Tolerance in distributed controllers](#)", International Symposium on Networks, Computers and Communications (IS-NCC):NFV and SDN, Istanbul, March, 2019

COMPUTER SKILLS

- **Programing Languages**
C, C++, Qt, java, python, Matlab, Assembly, HTML, CSS, Bootstrap, shell scripting, verilog, OpenMP, MPI, SSE/AVX
- **Technologies and skills**
 - CCIE service provider
 - Linux Administration
 - Kernel Development
 - CCNP Routing and Switching
 - System Programming
 - Cloud networking with OpenStack

- **Tools**

Microsoft Visual Studio,Pycharm, IntelliJ,Clion,Code Blocks, bootstrap studio, Netbeans,Xcode,Matlab. CodeVision AVR,AVR studio,Proteous,Xilinx ISE,Active HDL,ModelSim,Altium Designer. Cisco Packet Tracer, Boson, GNS3, Mininet,NS2,VMware,L^AT_EX,Microsoft Word,Microsoft Excel,Microsoft Power-Point, Git, DPDK, VPP, FRRouting, Docker (Github Account)

- **Operating Systems**

Mac,Linux,Windows,BSD

LANGUAGE SKILLS

- Turkmenish: Mother Tongue
- Persian: Native
- Turkish: Fluent
- English: Fluent

IELTS: Listening:6.5 Writing:6 Reading:7 Speaking:7.5 **Overall:7**

HOBBIES

- playing guitar
- Wrestling, Gym
- cooking, Cinema

REFERENCE CONTACTS

- Professor Nasser Yazdani, Full Professor, University of Tehran, Iran
yazdani@ut.ac.ir
- Dr. Majid Nabi, Assistant Professor at TU/Eindhoven, the Netherlands
m.nabi@tue.nl
- Dr. Robert CC Huang, Director for the Data Center System Software Division at ITRI, Taiwan
RobertCCHuang@itri.org.tw