

Sina Kashipazha

PERSONAL DATA

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EDUCATION

B.Sc In Computer Engineering with Concentration in Software
University of Tehran

Tehran, Iran
2012 - 2017

PROFESSIONAL EXPERIENCE

- Syntech Research Center

- [Parax Electric Car](#) Nov 2018 - present
Technical Staff, design and implement middleware between cars and end users
 - Load balance bulk of encrypted data received from cars between multiple cache container
 - Use Reinforcement Learning to choose next cache
 - Send car data to end user in real-time
 - Use microservices architecture to implement above services

- University of Tehran

- [Computer Network Lab](#) Jun 2015 - Jul 2017
Technical Staff, RF, Microwave and MM-Wave Characterization
 - Hands on Experience in using RF, Microwave and MM-Wave measurement equipments
 - Familiar with general requirements of testing and calibration lab standard (ISO 17025)
- [Photonics Research Lab](#) May-Oct 2016
Research Staff, RF and Microwave Circuits and System Design for Cellular Communications Systems
 - Feasibility study of, design a LTE macro, micro stand alone Base Station RF Front-End and wrote a proposal worths approximately \$ 300K
 - Designed, implemented and measured a high isolation (up to 44dB) power combiner for GSM BTS
- [Science and Technological Park, Ragan Parto Pars CO.](#) Jun - Dec 2015
RF System Engineer
 - Designed and implemented a high frequency, and Digital Printed circuits Board
 - Designed and implemented a educational antenna kit for antenna lab course
 - Designed and implemented high power waveguide filter

FIELD OF INTEREST

- Distributing switch flow between multiple controller in SDN networks
- File Placement in Distributed File Systems using Online Algorithms
- Task Scheduling Policies in Cluster Computing

- Load Balance Application Layer Traffic using Layer Three Switch
- Content Distribution in Vehicular Social Networks
- Cloud Orchestration

RESEARCH EXPERIENCE

- **University of Tehran**
 - **Computer Network Laboratory** Feb 2015 - Feb 2018
Advisor: **Prof. Ahmad Khonsari**
 - **Thesis:** Reduction of Request Response in Hadoop Framework in regard to Network
 - **Thesis:** Update SDN Switch Routing table in response to Topology Change
 - **Thesis:** Cloud Based Computer Network Lab
- **Publications**
 - **Social-aware Mobile Road Side Unit for Content Distribution in Vehicular Social Networks** [\[abstract\]](#)

UNIVERSITY OF TEHRAN TEACHING EXPERIENCE

- **Computer Network Lab (Fall)** 2018-2019
- **Computer Network Lab (Fall, Spring)** 2017-2018
- **Computer Network Lab (Spring)** 2016-2017

UNIVERSITY OF TEHRAN TEACHING ASSISTANT EXPERIENCE

- **Advanced Computer network (graduate) (Fall) Computer Network (Fall)** 2018-2019
- **Operating System (Fall, Spring), Operating System Lab (Fall, Spring), Computer Network (Fall, Spring)** 2017-2018
- **Advanced Computer network (graduate) (Fall) Operating System (Spring), Operating System Lab (Spring), Computer Network (Fall, Spring)** 2016-2017
- **Operating System (Fall, Spring), Operating System Lab (Fall, Spring), Design and Implementation of Compiler (Fall), Computer Network (Spring)** 2015-2016
- **Operating System (Spring), Operating System Lab (Spring), Formal Languages and Automata (Fall)** 2014-2015

TECHNICALS SKILLS

- **Network skills:**
 - **Expert:** mininet, floodlight controller, scapy
 - **Proficient:** Openflow protocol, SDN network
 - **Familiar:** GNS3 network simulator, pox, MPLS, segment routing, Cisco switch
- **Cloud skills:**
 - **Proficient:** docker, docker-compose
 - **Fluent:** Hadoop
 - **Familiar:** Openstack, Ansible, Kubernetes, Spark
- **Frameworks and tools:**
 - **Expert:** Play Framework, maven, git
 - **Proficient:** Hibernate, Anaconda, Jupyterlab, python data analysis libraries: NumPy, SciPy, Pandas, Matplotlib
 - **Familiar:** Node.js, HTML5, CSS
- **Programming languages:**
 - **Expert:** Java
 - **Proficient:** Python, C, JavaScript

SELECTED PROJECTS

- **Analysis of a partially filled waveguide and waveguides discontinuity using MATLAB**
Theory of Electromagnetic course
- **Design and Simulation of an 5.17 - 5.33 VCO Colpitts oscillator and a balanced mixer at IEEE802.11a/b/g Standard using ADS in 0.18 um technology**
Communications Circuits course
- **Design and Simulation of high performance low power fully differential telescopic cascade amplifier using HSPICE and ADS in 0.18 um technology**
Electronics III course
- **Design and simulation of C-band Substrate Integrated Waveguide directional coupler Using HFSS**
Microwave Laboratory course
- **Simulation of Digital Modulation Methods (PSK, FSK, ASK, QAM) via MATLAB**
Digital Communications Laboratory course
- **Simulation of an OFDM and a MIMO System via MATLAB**
Wireless Communication course