

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

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|---|--|
| <ul style="list-style-type: none"> • Network skills: <ul style="list-style-type: none"> ◦ Expert: Mininet, Floodlight Controller, Scapy ◦ Proficient: Openflow protocol, SDN network ◦ Familiar: GNS3 network simulator, pox, MPLS, Segment Routing, Cisco switch • Cloud skills: <ul style="list-style-type: none"> ◦ Proficient: Docker, Docker-compose ◦ Fluent: Hadoop ◦ Familiar: Openstack, Ansible, Kubernetes | <ul style="list-style-type: none"> • Frameworks and tools: <ul style="list-style-type: none"> ◦ Expert: Play Framework, maven, git ◦ Proficient: Hibernate, Anaconda, Jupyterlab, python data analysis libraries: NumPy, SciPy, Pandas, Matplotlib ◦ Familiar: Spark, Node.js, HTML5, CSS • Programming languages: <ul style="list-style-type: none"> ◦ Expert: Java ◦ Proficient: Python, C, JavaScript |
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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