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

o Parax Electric Car Nov 2018 - present

Lead Software Engineer, designed and implemented cloud system which:

- Receive bulk of encrypted data from cars
- Load balance received data between multiple cache container
- Use Reinforcment Learning to select next caches ????
- Show cars data to end user in real-time ????
- Use microservices architecture to implement above services

University of Tehran

Computer Network Lab

Jan 2017 - Jan 2019

- **Technical Staff**, Network protocols, Router and MM-Wave Characterization
- Hands on Experience in using Router, Switch and SDN enabled equipments
- todo floodlight load balance here.
- todo put hadoop here.
- todo put network lab here.
- todo paper goes here.
- todo put fuzzy controller here.
- The Institute for Research in Fundamental Sciences (website) ????

July - Sep 2018

Technical Staff, Devise solutions and tools ????

- Designed and implemented a cloud based solution to run simulaotions remotely using Anaconda, JupyterLab and Docker
- Designed and implemented a educational modules for computer network lab course
- Designed and implemented a Markov chain, Monte Carlo, and multi-armed bandit Reinforcement Learning alghorithms

FIELD OF INTEREST

- Distributing switch flow between multiple controller in SDN networks
- File Placement in Distributed File Systems using Online Alghorithms
- 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 Labratory Advisor: Prof. Ahmad Khonsari

Feb 2015 - Feb 2018

- 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 Copmuter Network Lab
- Publications
 - o Social-aware Mobile Road Side Unit for Content Distribution in Vehicular Social Networks [abstract]

EXTRACURRICULAR ACTIVITY

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o Computer Network Lab (Fall, Spring)

Jan 2017 - Jan 2019

- Teaching Assistant (Graduate)
 - Advanced Computer network (Fall) EXCEPT: Fall 2017

Sep 2016 - Jan 2019

- Teaching Assistant (Undergraduate)
 - o Computer Network (Fall, Spring)

Jan 2016 - Jan 2019

o Operating System and Operating System Lab (Fall, Spring) EXCEPT: Fall 2016

Jan 2015 - Jun 2018

o Design and Implementation of Compiler (Fall),

Sep 2015 - Jan 2016

o Formal Languages and Automata (Fall)

Sep 2014 - Jan 2015

TECHNICALS SKILLS

- Network skills:
 - o Expert: Mininet, Floodlight Controller, Scapy
 - o Proficent: Openflow protocol, SDN network
 - Familiar: GNS3 network simulator, Pox, MPLS, Segment Routing, Cisco switch
- Cloud skills:
 - o **Proficent:** Docker, Docker-compose
 - Fluent: Hadoop
 - o **Familiar**: Openstack, Ansible, Kubernetees

- Frameworks and tools:
 - o Expert: Play Framework, Maven, Git
 - Proficent: Hibernate, Anaconda, Jupyterlab,
 Python data analysis libraries: NumPy, SciPy,
 Pandas, Matplotlib
 - o Familiar: Spark, Node.js, HTML5, CSS
- Programming languages:
 - o Expert: Java
 - o **Proficent:** 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