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Education

Sharif University of Technology, Tehran, Iran.

- Master of Science in Physics. GPA: **17.85 / 20.00**   (2018-now)

   Thesis: *Entanglement Detection Using Machine Learning*

K. N. Toosi University of Technology, Tehran, Iran.

- Bachelor of Science in Electrical Engineering - Telecommunications. GPA: **18.50 / 20.00**   (2013-2018)
- Bachelor of Science in Physics GPA: **19.03 / 20.00**   (2013-2018)

Technical Skills

- **Computer Softwares and Environments**

   Experienced in **Linux** (over 4 years experience)

   Server tools: **nginx/apache, vsftpd, openssh-server, ocserv, tightvncserver**

   Client tools: **w3m/lynx, ftp/sftp, ssh, openvpn/openconnect, xtightvncviewer**

   DNS servers: **CoreDNS, BIND**

   File Sharing Systems: **NFS, Samba**

   Other tools: **fdisk, nmap, wireshark**

   Version Control Systems: **git, Github, Gitlab**

- **DevOps Skills and related softwares**

   Virtualization: **VirtualBox, Hyper-V, VMware-ESXi**

   Containerization: **LXD, Docker**

   Orchestration: **Kubernetes, DockerSwarm**

   CI/CD: **Jenkins, GitLab-ci**

   Configuration Management: **Ansible**

   Alerting and Monitoring: **Prometheus, Monit**

   Visualization and Metric Analytics : **Grafana**

- **Cloud?**

  Cloud Management Platforms: **Openstack**

  Storage Platform: **Ceph**

- **Programming languages and Scripting**

  Experienced in **C/C++** and Algorithms as demonstrated in ACM Competitions

  Experienced in **Python** including scikit-learn, tensorflow, keras and pytorch libraries

  Experienced in **GoLang**

  Experienced in **Bash scripting**

  Familiar with Java and JavaScript

- **Database Management Systems**

  RDBMS: **MySQL, PostgreSQL**

  NoSQL Database: **MongoDB, Redis**

  Search Engine: **Elasticsearch**

- **Computer Networks**

  Completing network+ and CCNA (routing and switching) courses

  A comprehensive understanding of **TCP/IP** and Security (esp. TLS/SSL and Encryption)

Job Experiences

- DevOps Engineer at SINA Innovative Communications System. (1 months)
- Research intern at ILSF RF-Group, Institute for Research in Fundamental Sciences (IPM). (summer 2016)

Honors and Awards

- 15th place, **ACM-ICPC** Asia Tehran Regional Contest. (2014)
- 14th place, **ACM-ICPC** Asia Tehran Regional Contest. (2015)
- 30th place, **Code Cup** quera programming competition in Iran. (2016)
- Qualified for studying **two majors simultaneously (Dual Degree)** as a distinguished student.
- **Ranked 1st** among all undergraduate students (138 students) in electrical engineering and also all undergraduate students (40 students) in Physics department.
- Ranked **3rd** in Konkoor for Masters degree in the field of Physics in Iran. (2018)

Projects

- Implementing a containerized Nginx web-server hosting different websites on a single IP, based on URL queries using docker.
- Implementing a containerized django based web-server with the ability of uploading files using docker.
- Using Anomaly detection algorithms to predict unexpected behaviour of entanglement in particles.
- Implementing a SIP server with python and modifying SIP clients (Linphone) to use Diffie-Hellman key exchange.
- Completing different gym.open-AI games using Reinforcement Learning techniques (specifically Deep Q-Learning).
- Implementing different machine learning techniques (supervised, unsupervised and semi-supervised) to identify Entanglement in particles (a physical properties) specifically using Feed Forward Neural Networks, Convolutional Neural Networks and Recurrent Neural Networks (LSTM).

Teaching Experience

- Spring 2015, Teaching Assistant for "Fundamentals of Computer and Programming"
- Fall 2016, Teaching Assistant for "Engineering Mathematics",
- 2016-2017, Teaching Assistant for "General Physics 1 and 2"
- 2015-2016, Teaching Assistant for "Engineering Electromagnetics"

Languages

English, Full Proficiency
Persian, Native Speaker
German , Elementary Proficiency

Hobbies

Brazilian Jiu-Jitsu
Bodybuilding
Chess

References

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Last updated: November 3, 2019