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Maziar Sojoudian

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Education

Master of Applied Science Quality Systems Engineering   **(Sep 2018 – Apr 2021)**

Concordia University, Gina Cody School of Engineering and Computer Science, Montréal, QC

Bachelor of Sciences, Computer Software Engineering   **(Jan 2014 – Jan 2016)**

Allameh Amini University, Mazandaran, Iran

B.A. in Electrical-Telecommunications   **(Jan 2008 – Jan 2012)**

Zarandieh University, School of Computer Engineering, Tehran, Iran

Current Project

Mginx, since Jun 2021

A Golang based open-source application, which helps other startups to find proper names for their startup, aiming from Knowledge graph and NLP.

- Develop system programs, CLI applications, Network, and restful API-based applications and scripts with Golang, Python, and Bash.
- Using different Testing like testing, Testify, And Resty to write unit tests
- Creating REST based microservices benefitting from gRPC
- Dockerize microservices and create deployment for Kubernetes and deploy on different cloud platform.

Cloud Academy and **Udemy**

Studying Cloud related courses for AWS, Azure, GCP exams. And High-performance computing related courses like the Concurrency and parallelism with Golang.

Work Experience

Cloud engineer.   **(Feb 2020 – Jun 2020)**

My Intelligent Machines, Montréal, QC

My Intelligent Machines is an AI-powered Systems biology SaaS platform. I work there as a part time cloud engineer.

- Make all the applications and modules docker images work on minikube for test and development proposes.
- Help DevOps to migrate from docker ecosystem to Kubernetes on Azure cloud, using tools like Azure CLI, Azure Kubernetes services, Container Registry and Azure DevOps

Backend/AI developer and DevOps engineer.   **(Sep 2018 – Apr 2021)**

Concordia Institute for Information Systems Engineering and **HumanitiAI,** Montréal, QC

HumanitiAI is a startup that is collaborating with Concordia University and as a research assistant.

- Designing and creating RESTful API backend application through Flask framework
- Research and development on Graph databases, Modeling data for Neo4j
- Creating different backend application modules and data pipelines through Flask framework, RabbitMQ, MongoDB, Neo4j
- Building Docker images for backend applications and AI modules
- Creating a hybrid graph-based recommendation system
- Deploying all application modules on Amazon AWS
- Maintaining and monitoring all servers and services.

Maziar Sojoudian

DevOps/Cloud Engineer   (Jul 2017 – Sep 2018)
Snapp (Iranian Uber), Tehran

Snapp is an internet-based taxi application like Uber in Iran; now, they have more than 1,700,000 successful rides per day. I was there from the very beginning till they reached 1,250,000 successful rides per day.

- Collaborating with the development teams to improve the product and keep the application up & run, like migrate from monolithic to Microservices and Dockerizing all the applications and modules.
- Collaborating with IP team to set up and troubleshooting different projects, like IP floating for High-availability and IP LACP Bonding between Linux machines and Cisco devices.
- Collaborating with Network Security team to set up Fortinet Firewalls.
- Design and manage the infrastructure with hundreds of VMs and containers, using Ansible configuration management for automation on private cloud based on KVM (OpenNebula) and ESXi for virtualization system on multiple bare-metal servers with auto migration virtual machine on the disaster situation.
- Setup and maintain Web server for more than 7k requests per second based on compiled Nginx with High Availability via HAproxy and creating a high-performance webserver
- Automating VM provisioning and setup OS, and config post OS configurations and installations like setting up firewall and monitoring and application server changes via Ansible.
- Setup and maintain the central MySQL-Cluster with HA for each project: multi-master replication with horizontal scaling through slaves and second slaves behind the master.
- Setup DevOps environment Continuous Integration and Continuous Delivery aka CI/CD, promise GitLab, Automation lifecycle through Jenkins and Ansible for automating using agile methodology.
- Develop logging with Python and MongoDB for specific APIs.
- Design and develop customized high available load balancing system for slave databases using Bash and Nginx-Lua.
- Setup alerting and monitoring service with Prometheus and Grafana, Netdata, Zabbix, Cacti, Smoke Ping.

GNU/Linux and FreeBSD Administrator   (May 2014 – Oct 2015)
Asiatech, Tehran, Iran

Responsible for AAA and ADSL user management systems with FreeRadius for more than 1.5 million users, setting up server-side services on GNU/Linux and FreeBSD.

- Setting up Expire Forwarder
- Setting and reconfiguration Iptables and CSF on Public Servers AAA Servers Administration
- Collaborating with the Network team to configure and troubleshoot Cisco bras (Broadband Access Aggregation Server) for ADSL service, different Switch, and Routers different datacenters.
- Co-Location servers Administration, more than 800 metal servers
- Setting up Log Analyzers for data mining
- Creating shell scripts for routine tasks
- Creating PHP web services to generate reports from VoIP system
- Setting up NOC project, PRTG, Linux Repository, and so on

Network Engineer   (Aug 2011 – Sep 2012)
Morva, Tehran, Iran

AS a NOC team member, I created a monitoring and change system first to find the network and services issues, then fixing them with a pre-made solution for problems.

- Configuration and maintaining all Routers and switches and Servers

- Maintaining Asterisk VoIP system
- Installation and Configuration Cacti, Nagios and SolarWinds

Network Engineer   **(Jul 2010 – Aug 2011)**
EGT, Tehran, Iran

As part of the technical team, I designed and configured all EGT ISP modules from scratch, like designing network layer and routing protocol via Cisco and Mikrotik, routers, and switches. Set up accounting system on Debian server for managing user. It was just a small Wireless ISP (WISP) at the first stage, but after a while, with providing high-quality service, it became one of the main WISPs in Tehran. Now, they have more than 400GB of bandwidth.

- Installation and setting up Linux services like Accounting, DNS, MySQL database, Mail server for Wireless Users
- Implementation of IP Network Architecture on Network devices like Cisco (Core Router & Layer 3 Switch)

Professional experiences and skills

- Private cloud engineer with experience in virtualization applications like OpenStack, KVM, and VMware since 2014.
- Public Cloud Platforms: Amazon AWS, Microsoft Azure and related services like AKS, E and more.
- DevOps engineer Experienced with most DevOps tools and processes like Docker and containerizing various applications, Kubernetes, Gitlab CI, Jenkins, Ansible, Terraform, Vagrant.
- Experienced with SQL and NoSQL databases like MySQL, MariaDB, MongoDB.
- More than ten years of experience with all GNU/Linux distributions and storage systems like ZFS, LVM, NFS.
- Developing restful API base application and scripts, traditional Shell scripting with Bash and Python.
- Teach different technologies like GNU/Linux and cloud to colleagues and students.
- Fast learner with strong communication and conflict resolution skills gained through work experience.
- HAproxy with VRRP and Keepalived
- Linux logging services, Syslog and Graylog.
- Experienced in ITIL environment using with Jira through ITIL methodologies
- Creating documents about issues and workflows in confluence
- Experienced working with SCM tools such as git, Github, and BitBucket

Other Interests

- Work on Open-source projects
- Swimming
- Making programming tutorials
- Cooking