

Arash Morattab

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Senior IT consultant at Opticca, specializing in architecting cloud solutions, automation and devops. A GCP Professional cloud Architect, AWS certified solutions architect and Certified Openstack Administrator with other certificates in Devops, Azure, Docker, Jenkins, Ansible and Linux.

Possesses hands-on experience in different programming languages including: Python, Java, C++, Perl, PHP and Web development. Deep practical understanding of Linux, Computer networks, Distributed systems, Software architecture, Cloud computing systems, Containers, System administration, Monitoring, Reliability engineering and Config Automation.

Skills

- Broad knowledge in cloud computing and computer systems
- Good communication and presentation skills
- Continuous improvement and learning latest technologies
- Collaborative team player
- Good analytical skills

Technologies

- Cloud/IaaS: GCP and AWS
- Hybrid: Openstack
- Virtualization Platforms: AWS (EC2, IAM, RDS, Lambda, S3, Cloudfront, VPC, Aurora, Redshift, Boto3, Cloudwatch, DynamoDB, DevOps services), GCP, Openstack, Azure, Docker, Kubernetes, Vmware
- DevOps Tools: Jenkins, Git, Jira, Bitbucket, Bamboo, SDLC, Agile Methodologies, ELK stack, Terraform, Cloud Formation, Prometheus
- Programming Languages: Python, C++, Java, Shell Scripting, Perl
- Operating Systems: Redhat Linux, Ubuntu, Microsoft Windows Server
- Editors: Vim, Eclipse, Pycharm, Microsoft Visual Studio, PHPStorm
- Web: PHP, CSS, HTML, Javascript, Node.js, Angular
- Database: MySQL, MongoDB, Redis, CouchDB, Apache webserver, Zookeeper, RabbitMQ
- Publishing Tools: LaTeX, Microsoft Office Package, Adobe InDesign, Adobe Photoshop

Experience

MAY 2019 – PRESENT

Senior IT Consultant/ Opticca Consulting INC, Toronto

- Partnered with Google, Microsoft, Redhat, Softchoice, and IBM, I help clients to find the root cause of their IT infrastructure problem, then using the latest technologies, we propose solutions that fit them the best.
- CICD solution and pipeline design and implementation based on latest best practices
- Cloud (GCP, AWS) solutions architect
- Containerization and Microservices
- Automation using Ansible, Terraforms
- Presales activities

Projects and responsibilities:

- Implemented Ansible AWX and Tower for customers looking to improve DevOps maturity by automating repeatable tasks and processes. Examples include integrating with Jenkins, and new customer creation workflow automation. Executing scripts for configuration management. Installation, configuration, architecture, and implementation of Ansible.
- Leading migration of a complex CICD infrastructure from AWS to GCP (Mix of GKE and Computes). Tools in use: Jenkins, Terraform, JCasC, Bash, Helm, Prometheus, Grafana, KMS, Packer, Network design and solution architecture
 - Understanding and documenting the current state of the infrastructure in AWS
 - Trying Jenkins X on GCP to migrate from AWS
 - Due to heavy usage of 'docker compose' in the tests, we had to use both GKE and GCE for the build agents and design a new architecture (using Kompose was suggested as an alternative approach too)
 - Use private k8s cluster and network design and infrastructure implementation using Terraform
 - Extract old configurations, plugins, and credentials from Jenkins servers on AWS
 - Automate Jenkins installation using JCasC plugin and Helm charts
 - Install and configure Prometheus and Grafana using Helm charts and Implement monitoring using best practices to monitor infra and Jenkins and build agents
- Architecting and implementing a fresh JenkinsX based CICD pipeline in GCP
 - Infrastructure design and implementation using Terraform
 - Install static Jenkins X using boot on top of the infra
 - Use latest CICD trends like "environment as repo", Gitops "chart deployments" and "serverless architecture" concepts and educate the client
 - Add infrastructure monitoring using Helm charts for prometheus and Grafana

MAY 2017 – MARCH 2019

Virtualization and Cloud Engineer/ Morgan Stanley, Montreal

- Consulting Morgan Stanley for their in-house systems, and software development in order to improve the function of their DevOps and virtualization systems and adding the required features
- Main tools in use: Python, Perl, VMware, Openstack, Zsh, Angular, and a lot of mysterious in-house tools!

Projects and responsibilities:

- Automating data-center equipment (Racks, Network, Storage, OS, VMware config, etc.) from building and configuration to monitoring with code
- Building secure isolated infrastructures
- Automate VM life-cycle management
- Resource inventory tool
- Infrastructure monitoring and alarming
- Customizing Openstack to fit the company needs
- Openstack support and upgrade
- Build tools to automate tasks for Sysadmins
- Simplifying and optimizing the infrastructure architecture by removing legacy components and redundancy and by using new technologies
- Being on-call for infrastructure issues and outages (Point-of-contact)
- Release manager for the team: At the end of each sprint, I collect the committed changes and deliver and explain it to our clients and release it to the production environment. This includes getting approvals and testing to see if everything works as required.

MARCH 2017 – MAY 2017

DevOps Engineer / Mindgeek, Montreal

Projects and responsibilities:

- Devops experience in top-ranked high-traffic websites and infrastructures with 1000+ servers, 10000+ domains, 100,000+ requests/sec
- Improving the existing CI/CD system for the company based on PHP, Docker, Angular, VMWare
- Automating the Sys-admin Tasks

APRIL 2014 – DECEMBER 2017

Devops and Full-stack Developer / Tattoo and Gallery Abyss, Montreal

- Tripling the company revenue by bringing them online the right-way

Projects and responsibilities:

- System Admin, Building infrastructure as a code: AWS (EC2, RDS, ElastiCache), Cloudformation, Ansible
- Full-stack web developer: PHP for Wordpress and WooCommerce, CSS, Javascript
- Marketing and SEO

SEPTEMBER 2014 – MARCH 2017

Research Assistant / Synchronmedia Laboratory, Montreal

Focusing on:

- QoS in different Layers of the cloud
- Energy Efficiency in Cloud Systems
- Software Architecture of Openstack
- Automation of Openstack
- Cloud Monitoring
- Cloud in Smart home applications
- Resource consolidation and live migration
- Cloud Middlewares and their comparison: Openstack, Cloudstack, Eucalyptus, Saltstack

JANUARY 2014 – AUGUST 2014

Research Assistant / LASSENA Laboratory, Montreal

Focusing on:

- Building a Web platform for Car Navigation System using Node.js and Web sockets
- GNS/INS integration algorithms

APRIL 2011 – SEPTEMBER 2011

ISP Technician / Rayanravesh, Sanandaj, Iran

- Internship in Network simulation and design using Cisco products

APRIL 2010 – APRIL 2011

Web and iOS Developer / Eavar Travel Agency, Tehran, Iran

- Designing a platform based on iOS and web for the remote management of the agency tasks.

Education

2014 - 2016

Master's degree in Software Engineering / École de technologie supérieure, Montreal

Thesis Title: "MULQA: Multi-layer Quality-aware cloud framework", accepted with score "Very Good"

GPA: 3.64/4.3

Courses: [McGill]: Computer Networks, Multi-agent Systems, [Concordia]: Advanced Software Architectures, [ETS]: Research Methodologies, Directed Reading on cloud-middlewares and energy efficient systems

2009 - 2012

Bachelor's degree in Computer Engineering / Amirkabir University of Technology, Tehran, Iran

Project Title: "Implementing TCP/IP in MinSoC", accepted with score 20/20

GPA: 14.43/20

Languages

- English: Fluent
- French: Intermediate (speaking, reading, writing, listening)
- Kurdish: Native
- Persian: Native
- Arabic: Upper-intermediate (reading, writing), Intermediate (speaking, listening)

Activities

- **Professional Certificates:**

- Certified Openstack Administrator (COA), License: COA-1600-0258-0100
- AWS Certified Solutions Architect—Associate, Validation Number PCE0S42KDEREQ3G0, Score: 869/1000, Meeting competencies in all five sections
- DEVOPS ENGINEER - SENIOR LEVEL, link: <https://linuxacademy.com/profile/u/lpCert/id/613ac819c5536771>

- **Hobbies:**

- Sports: Martial arts, Biking, Swimming, Mountain Climbing
- Live Music and Festivals
- Reading about Technology and Philosophy
- Cinema