



## Consultant profile

Mister

**Arian Jamborzadeh**

IT Consultant



### Quick overview

8+ years of professional experience in developing and operating complex software and cloud- & on-premise projects with a focus on DevOps and platform engineering.

*Experienced in planning and developing complex software projects - focus on fullstack development and distributed systems.*

*Experienced in planning and operating complex network and infrastructure projects (cloud, hybrid-cloud & on-premise).*

*Special experience in the area of software engineering and system design & architecture - focus on Cloud, Kubernetes, GitOps and automation.*

#### **Contact details:**

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# Tech Stack

## Cloud

- Azure
- AWS
- GCP
- Hetzner

## Programming languages

### Backend:

- Python (*Flask, Pandas, FastAPI*), Java (Spring Boot), Go, Bash, PowerShell
- Insomnia, Postman

### Frontend:

- JavaScript (React.js, Next.js), CSS, HTML

## Containerization & Infrastructure as Code

- Kubernetes (Azure Kubernetes Service (AKS), Google Kubernetes Engine (GKE), Amazon Elastic Kubernetes Service (EKS), OpenShift Container Platform (OCP), RKE2, k3s, Helm, Kustomize)
- Docker, Docker Compose, Docker Swarm, Podman, Podman Compose, Kind
- Terraform, Ansible, PowerShell DSC
- NGINX, LetsEncrypt, Apache, Cert-Manager, External-DNS

## DevOps

- ArgoCD, Azure DevOps
- GitLab CI/CD, GitHub Actions, Cloud Build
- Shell Scripts (Bash), Linux
- Kubernetes, OpenShift, kubectl, oc, docker-compose
- Prometheus, Kibana, Grafana, OpenSearch, Fluentbit, Coroot, Datadog, Dynatrace

## Operating systems

- Linux (*Ubuntu, Red Hat Linux (7-9), Debian*), Windows, macOS, MicroOS

## Data Services & Databases

- MariaDB, MySQL, Redis, SQL, PostgreSQL, Keycloak, etcd

## Tools

- Jira, Confluence, Scrum, Kanban
- Git, GitHub, GitLab
- VisualStudio Code, PyCharm, IntelliJ IDEA
- ServiceNow, Sharepoint

## Further training & certifications



- Google Cloud Certified: Cloud Architect Professional
- Codefresh Certified: GitOps for Enterprise
- Codefresh Certified: GitOps at Scale
- Codefresh Certified: GitOps Fundamentals
- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Solutions Architect Expert
- Microsoft Certified: Azure DevOps Engineer Expert
- Red Hat Certified Engineer
- Red Hat Certified Specialist in Containers and Kubernetes
- Red Hat Certified Specialist in OpenShift Administration
- Red Hat Certified System Administrator

## Project experience

**Position:** Staff Platform Engineer

**Timeframe:** 06/2024 - 03/2025

**Industry:** Public / Banking

### Objective:

- Further development and optimization of public and private cloud environments based on OpenShift for clients in the public sector and banking, to ensure scalability, security, and efficiency at the highest level.

### Activities:

- Continuation and improvement of platform automations using **Infrastructure as Code (IaC)** and efficient **GitLab CI/CD pipelines**, as well as **Ansible**, to achieve efficiency gains and minimize manual processes.
- Expansion and fine-tuning of **OpenShift** clusters to ensure high availability, maximum performance, and robust security, applying **DevOps** best practices and the latest **BSI security standards**.
- Conducting training sessions, workshops, and coaching for internal teams to promote knowledge exchange and deepen competencies in handling cloud technologies, container orchestration, and **OpenShift**.
- Development of intelligent automations for application versioning to enable seamless deployments and rollbacks by implementing **GitOps** principles and **continuous deployment** strategies.
- Development of a powerful **Python** application for automatic synchronization of tenant data to enable smooth integration with **Red Hat Advanced Cluster Security** and consistently apply company-wide security policies.
- Implementation and ongoing development of a comprehensive observability stack based on **OpenTelemetry** and **Dynatrace**, including the creation of customized dashboards and alerts for proactive system monitoring and troubleshooting.
- Design and implementation of a comprehensive update and patch process for **OpenShift** clusters and internal platform components to meet the highest security standards and compliance requirements, including the automation of testing and deployment steps.

**Technologies:** OpenShift, Kubernetes, Red Hat Advanced Cluster Security, OpenTelemetry, Dynatrace, Python, Git, GitOps, CI/CD pipelines, Infrastructure as Code (IaC), DevOps, Continuous Deployment, Azure, Ansible, Prometheus, Grafana, Docker, Linux, Agile Methodologies, ArgoCD, VMware

**Position:** Head of DevOps  
**Period:** 06/2023 - 08/2024  
**Industry:** E-Commerce  
**Goal:**

- Conception and development of a **platform** to operate a webshop based on **Kubernetes** in combination with a **Multi-Cloud** Approach.

**Tasks:**

- Design and implementation of the target architecture based on **Kubernetes** on the **Hetzner Cloud** as well as on the **Plus Server Kubernetes Engine**.
- Planning and management of the project with regard to the following points: **resources, budget, service provider management, architecture**.
- Buildup of the department *Platform & DevOps* with the focal points **Automation, Infrastructure as Code, GitOps, Cloud Services, Stability**.
- Management of the department's employees of *Platform & DevOps* (10+ employees)
- Development of **Dockerfiles** for containerizing Java **Spring Boot** and **Python Flask** Applications.
- Building of **Gitlab CI/CD Pipelines** for automatic testing and creation of **Container Images** for all applications (**Self Contained Systems**) of the web shop based on **Java Spring Boot & Gradle**.
- Development of the **Terraform** Automation for provisioning and initializing all infrastructure components (**Kubernetes, ArgoCD**, etc.)
- Design and implementation of automated deployments and based on **ArgoCD**
- Development of **Helm-Charts** for the deployment of the web shop applications and platform services (**Kafka, Solr, Cert-Manager, Nginx**)
- Construction of a **Monitoring Stacks** based on **Prometheus** and **Grafana**. Connection of all setups for monitoring including **Alerting** over **Pagerduty**.
- Construction of a **Logging Stack** based on **Opensearch & Fluentbit**
- Design and setup of the automated synchronization of sensitive content (system credentials, certificates, passwords, etc.) using a **Hashicorp Secrets Vault**.
- Setup of **Google Cloud Buckets** for external storage and distribution of sensitive configuration files.
- Building and setup of an IAM **System** based on **Keycloak** for secure authentication on critical systems with the help of **Role Based Access Control (RBAC)**.
- Setup of a **Kafka Cluster** for asynchronous delivery of message queues.

**Technologies**

Java, Java Spring Boot, Gitlab, Gitlab CI/CD, Gitlab Container Registry, Terraform, GCP, Google Cloud Bucket, Docker, Dockerfile, Prometheus, Grafana, Opensearch, Fluentbit, Kubernetes, PSKE, Kafka, Solr, Cert-Manager, Nginx, Java, Spring Boot, Gradle, Python, Flask, ArgoCD, Helm, Hashicorp Secrets Vault, Keycloak

**Position:** Senior Cloud Consultant  
**Period:** 12/2022 - 07/2023  
**Industry:** Public

**Goal:**

- Conceptualization and development of infrastructure components and platforms for automating processes and providing development and operations environments within a **private cloud** environment.

**Tasks:**

- Developed a **GitLab CI/CD** pipeline for the automated provisioning of virtual machines for software development teams using **Ansible**, **GitLab CI/CD**, **Bash scripting**, and **PowerShell**.
- Designed and implemented a **Python FastAPI REST API** to create and update **DNS zone files**, integrating an **OAuth-based authentication interface**.
- Authored a **Dockerfile** to containerize the **Python FastAPI REST API** application, standardizing deployments as **Docker containers**.
- Automated the deployment process of the **Python FastAPI REST API** as **Docker containers** through a **GitLab CI/CD** pipeline using **Puppet**.
- Created network topologies for the service designs deployed on customer platforms within a private cloud (**VMware**).
- Developed automations for managing and updating **Squid-based proxy servers** to enable external connectivity of virtual machines using **Ansible**, **Bash scripting**, and **Squid**.
- Implemented **unit tests** to ensure the reliability of key modules during the build process of backend applications developed in **Java and Spring Boot**, containerized with **Docker**.
- Set up infrastructure automation to provision and initialize infrastructure components leveraging **Terraform** and **Ansible**.
- Created workflows for build, release, and deployment processes to achieve automated versioning and delivery of applications using **GitLab CI/CD**, **Bash scripting**, and **Ansible**.
- Developed **UI tests** to ensure the platform's frontend functionality using **Selenium** and **Next.js**.

**Technologies**

Python, FastAPI, Java, Spring Boot, GitLab CI/CD, Ansible, Puppet, Bash Scripting, PowerShell, Docker, Dockerfile, Terraform, Red Hat Enterprise Linux, Windows Server, VMware, Next.js, Selenium, GitHub Actions

**Position:** Senior Platform Engineer (Cloud)

**Period:** 11/2021 - 12/2022

**Industry:** Finance

**Objective:**

- Development of cloud infrastructure, CI/CD tools, and automation solutions to optimize processes and provide development platforms based on **OpenShift** clusters.

**Activities:**

- Designed and implemented a **REST API** for processing existing and new data sets, including integration of **PostgreSQL**, using **Python** and **Flask** for efficient data management and analysis.
- Developed **Dockerfiles** to containerize the Python application, enabling a standardized and scalable deployment pipeline with **Docker** and **Azure DevOps**.
- Developed **Azure Pipelines** for automating the build and deployment processes of containerized **Flask** REST APIs, leveraging **Azure DevOps**, and deploying to **Azure Container Instances**.
- Automated documentation page creation with **Ansible** and **Jinja2** templates, providing centralized, detailed information about infrastructure updates and patch processes.
- Created **Terraform** automations for provisioning secret stores in **Azure Key Vault**, ensuring secure handling of authentication data as Infrastructure as Code (IaC).
- Configured and migrated **Kubernetes** clusters using **Azure Kubernetes Service (AKS)** and **Helm** charts to efficiently manage and scale workloads.
- Developed automated notification processes for the start, status, and completion of patch day procedures using **Ansible** for workflow orchestration and **Jinja2** templates for dynamic content generation. Relevant cluster and customer data were retrieved from the CMDB (**SQL**) via **Python** scripts and integrated into email notifications to standardize customer communication.
- Created **Python-based** automations to synchronize and update customer data in **Azure DevOps** repositories, integrating these updates into the CMDB (**SQL**).
- Enhanced a Docker base image for use within **Azure Pipelines**, increasing the flexibility and efficiency of **CI/CD** processes.
- Automated **Red Hat Enterprise Linux (RHEL)** server administration using **Ansible** and **Bash Scripting** to minimize manual configurations.
- Administered **OpenShift** clusters for running containerized applications, utilizing **Kubernetes**, **OpenShift**, and **Docker**.
- Worked within **Scrum** teams to ensure iterative and agile development processes.

**Technologies**

Python, Flask, Docker, Dockerfile, Azure DevOps, Azure Pipelines, Azure Kubernetes Service (AKS), Helm, Terraform, Ansible, OpenShift, Kubernetes, SQL, Jinja2, Bash Scripting, Red Hat Enterprise Linux (RHEL), Scrum

**Position:** Senior Azure DevOps Engineer

**Period:** 06/2021 - 12/2021

**Industry:** Software Engineering

**Goal:**

- Development of a **Plugin** for automated installation and patching of a central **Argo CD instance** (Namespace restricted) on existing and new **OpenShift Clusters**

**Tasks:**

- Structuring and processing of work packages through **Scrum**
- Creation of an **Azure DevOps Pipeline** for triggering **Ansible** Automations within a **Docker Containers** to run the installation tasks
- Writing of an **Ansible Role** for automatic execution of the **ArgoCD** installation with dynamic customer data as input.
- Writing of **Kustomize** Modules for automatic pre-formatting of central **Kubernetes** Output resources from the **Argo CD GitHub** Repository and subsequent basic installation
- Development of a test module with **Ansible** to query the necessary installation steps based on the state of the following workloads on the clusters: **Certmanager**, **Keycloak (OpenID Connect/OAuth2.0)**, **Argo CD**, **Roles** and **Rolebindings**.
- Creation of **Jinja2 Templates** for the dynamic rollout of all necessary **Kubernetes/OpenShift** Resources (**Namespaces**, **Roles**, **Role Bindings**, **ConfigMaps**, **Secrets**).
- Writing of automated tests in **Ansible** to control specific installation and/or update tasks
- Automation of the creation/editing/removal of **Kubernetes** and **OpenShift** Resources in the target cluster to adjust application behavior and application permissions
- Automated integration of the **Argo CD** application server into the existing **Keycloak** instance of the cluster for authentication through **Keycloak SSO**.
- Development of all **Kubernetes** and **Argo CD** resources as **YAML** Files for the automated test suite of the installed **Argo CD**.
- Building the automated test suite as part of the installation and deployment of test workloads **Argo CD** based on defined **YAML Files** in a **Azure DevOps Repository**
- Administration of **Red Hat OpenShift Container Platform (RHOC)** Cluster as a **Red Hat Certified specialist in OpenShift Administration**
- Development and administration of containerized applications on **Red Hat OpenShift Container Platform (RHOC)** Clusters as a **Red Hat Certified specialist in Containers and Kubernetes**

**Technologies**

Azure Pipelines, GIT, Kubernetes, OpenShift, Python, Ansible, Docker, Harbor Image Registry, Keycloak, Argo CD, Kustomize, Bash Scripting. OpenID Connect, OAuth2.0



**Position:** IT Systems Engineer (Cloud)

**Period:** 01/2021 - 11/2021

**Industry:** Managed Services (PaaS)

**Goal:**

- Further development of an automated **Gitlab CI/CD Pipeline** for installing and updating new and existing **OpenShift Clusters**.

**Tasks:**

- Development of an **Ansible** Role for automatically documenting cluster-specific data in the central **CMDB (SQL)** such as cluster name, IPs and network ranges, node size and quantity, namespaces, etc.
- Division of tasks into **Sprints** with **Scrum** to complete the tasks
- Creating of **Ansible** Playbooks for automatically checking and adapting the following **OpenShift** Resources on existing and newly installed clusters: **Namespaces, Templates, Namespace- and Resource Quotas, Limits, Limit Ranges, OpenShift-Logging, Images, Roles and Cluster Roles, Role Bindings** and **Cluster Role Bindings**.
- Automated creation of a **Harbor Image Registry** to manage **Images** with **Terraform**
- Writing of a module with **Python** and **Ansible** for automatic documentation of the most important customer and cluster data in the **README.md** File of the associated **Gitlab Repositories**.
- Design of **OpenShift Project-Templates** for automatically rolling out predefined Project resources when creating new namespaces in the **OpenShift Cluster**.
- Creation of an **Ansible** Automation to query and build/patch the **OpenShift** Project templates to improve the administration of managed namespaces.
- Development of automated **Gitlab CI/CD** Stages to trigger all automations to patch all of the **Kubernetes/OpenShift** Resources.
- Automated setup of **Keycloak** instances for managing customer credentials
- Development and administration of containerized applications on **Red Hat OpenShift Container Platform (RHOCP)** Clusters as a **Red Hat Certified specialist in Containers and Kubernetes**

## Technologies

Gitlab CI/CD, GIT, Kubernetes, OpenShift, Terraform, Python, Ansible, Docker, NetApp Storage, Trident, Keycloak, Scrum, RedHat

**Position:** Senior Azure DevOps Engineer

**Period:** 08/2019 - 12/2020

**Industry:** Automotive

**Goal:**

- Planning and implementation of the development of several managed **Azure Kubernetes Service (AKS)** Clusters with **High availability** and **Stability** as main goals for enterprise customers through **Azure DevOps** Pipelines .

**Tasks:**

- Creation of **Azure DevOps Repositories** for all source code files.
- Planning of Tasks via a **Kanban Board**.
- Lead of internal and external Engineers for development tasks.
- Creation of **Azure Resource Groups** as well as **Azure Container Registries** for storing container images.
- Automation and **IaC** definition of the infrastructure with the help of **Terraform**
- Planning and design of the necessary **Network architecture** as well as setting up customer specific **Network adjustments** through **Azure Virtual Network (VNET)**.
- Setup of all customer requirements into the initial configuration files with a focus on **Permissions, Azure Network Security Groups (NSG), Resource Quotas, Azure Load Balancing (Azure Application Gateway)** and **Cluster accesses** of internal and external endpoints (**Azure VPN Gateway**).
- Setup and administration of relevant Kubernetes resources through **Ansible** (Namespaces, Deployments, Network Policies, Egress/Ingress-IPs, PodDisruptionBudgets, Resource Quotas, Roles und Rolebindings, Cluster Roles und Cluster Rolebindings, Templates, Images, etc.).
- Setting up of **Azure Firewall** Rules for the private/public access of the cluster.
- Building and developing an authentication interface to the cluster using **Azure Key Vault**.
- Maintain relevant project documents within the dedicated **Sharepoints**.
- Providing 2nd and 3rd level support through **ServiceNow** ticketing.

## Technologies

Azure DevOps Pipelines, Azure Firewall, Azure Load Balancing, Azure Application Gateway, Azure VPN Gateway, GIT, Kubernetes, Azure Kubernetes Service (AKS), Terraform, Python, Ansible, Docker, Ubuntu, Harbor Image Registry, Azure Key Vault, Scrum, Kanban, Sharepoint, ServiceNow, Oauth2.0, OpenID Connect, User Federation (Azure AD, Keycloak, etc.)

**Position:** Process Automation Engineer

**Period:** 04/2020 - 01/2021

**Industry:** Biotech

**Goal:**

- Development and deployment of a containerized **Python Flask REST API** for receiving, processing and forwarding critical data from **RedHat Enterprise Linux** Servers for administration purposes.

**Tasks**

- Design and structuring of the data template as **YAML** files for agglomerating the most important cluster data.
- Writing of a **Python module** to pull, commit and push from **Git Repositories**.
- Creating a data parser from **JSON** to **YAML** in **Python** which merges multiple data streams into a predefined structure.
- Configuration and implementation of the logic for **Authentication** in **Python** with the help of **Flask-HTTPAuth**
- Development and containerization of a **Python** Application which sends critical data of the respective **RedHat servers** via the **Command Line** interface through **CronJobs** as **POST Requests** to the **Flask REST API** which processes and forwards the data to a **Kubernetes** management cluster.
- Building of **Helm Charts** and **Github Actions Workflows** for automatically deploying the applications on the target clusters.
- Building of **Github Actions Workflows** to automatically build and push **Container Images** of the applications to a **Harbor Image Registry** in the event of changes to the source code.
- Automated deployment of developed and containerized applications and workloads with **Github Actions Workflows** and **Helm**.
- Leading of three employees as a **Scrum Team** and prioritization of work tasks.
- Administration of **Red Hat Enterprise Linux (RHEL)** servers as a **Red Hat Certified System Administrator (RHCSA)**
- Automation of the administration of **Red Hat Enterprise Linux (RHEL)** servers
- Development and administration of containerized applications on **Kubernetes** Cluster (On-Premise installation)

**Technologies**

Github, Github Actions, GIT, Kubernetes, Python, Ansible, Docker, Harbor Image Registry, Flask, HTTP-Requests, Helm, JSON, YAML, Scrum, RedHat Enterprise Linux

**Position:** Process Automation Engineer

**Period:** 07/2019 - 03/2020

**Industry:** Biotech

**Goal:**

- Development of a web application to record machine data from a production area in medical technology

**Tasks:**

- Development of a **React** Frontend for recording of production data from employees.
- Creation of a **Java REST API** for recording sent production data with the help of **Java Spring Boot**.
- Writing of **Java** Functions and hooks for data fetching of an existing machine API.
- Design and development of the **Java** Modules for formatting of the data for further processing. Dynamic calculation of KPIs and data cleaning based on environmental influences in the production areas.
- Design and development of the **Java** Modules for extrapolating data to calculate machine maintenance intervals.
- Translation of the developed modules from **Java** to **C#** to improve performance and maintainability.
- Containerization of the **C# REST API** in **Docker** based on **.NET Core**
- Deployment of the frontend and backend components as **Docker Container** through **Docker-Compose**.

## Technologies

Java, Java FX, Java Spring Boot, C#, React, .NET Core, Docker, Docker-Compose

**Position:** Industrial Engineer

**Period:** 10/2017 - 05/2019

**Industry:** Automotive

**Goal:**

- Design and Development of a Kubernetes-based MVP for real-time analytics of automotive circuit board manufacturing processes, aimed at enhancing production throughput and efficiency through detailed KPI monitoring and optimization.

**Tasks:**

- Design of a distributed **Node.js** application architecture leveraging **Kubernetes** to ensure high availability, scalability, and fault tolerance.
- Integration of services and deployment strategies to support real-time data fetching and processing.
- Leading an engineering team in agile sprints for incremental development, testing, and deployment of the platform components.
- Development of the backend services using **Node.js** and **Express**, orchestrated by Kubernetes to manage containerized microservices efficiently.
- Setup of a **React**-based frontend, containerized and managed via **Kubernetes** for dynamic scaling according to user demand.
- Use of **MongoDB** as a containerized database service within **Kubernetes** for persistent data storage and high-speed data access.
- Utilized **Prometheus** and **Grafana** for detailed monitoring of infrastructure and application metrics within the **Kubernetes** environment, with real-time alerts and dashboards to oversee system health and performance.
- Enhanced security with network policies, **Istio** service meshes, and TLS encryption, along with implementing Kubernetes best practices like **RBAC** and **Secrets** management to safeguard against unauthorized access.
- Developed a comprehensive **Jenkins CI/CD** pipeline integrated with **Kubernetes** for automated testing, building, and deployment, alongside rigorous unit, integration, and security testing to assure platform reliability and safety.
- Managed the scalable deployment of the application across various cloud platforms for high availability and redundancy, coupled with detailed training sessions for users and IT staff to maximize system efficiency and troubleshooting.

**Technologies**

Kubernetes, Node.js, Express, React, MongoDB, Docker, Jenkins, Prometheus, Grafana, Istio, TLS, and various data visualization libraries.

## linguistic proficiency

<b>German:</b>	mother tongue
<b>Italian:</b>	mother tongue
<b>Persian:</b>	mother tongue
<b>English:</b>	Full Professional Proficiency
<b>Spanish:</b>	Basic knowledge

## Initial and continuing education

- Master of Engineering (Nanotechnology/Process Automation), Nuremberg University of Technology
- Bachelor of Engineering (Materials Engineering), Nuremberg University of Technology

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*Please note that our consultants' profiles will also be presented to other customers in parallel until they are finally confirmed.*