

SAFA BAYAR

Phone: +1647 774 3325 | **Email:** bayarsafa@gmail.com | **Portfolio:** <https://safabayar.com>

Summary

Highly skilled **DevOps Automation Engineer and Cloud Specialist** with expertise in leading full software development life cycles for robust automation solutions. Designed, implemented, and optimized scalable infrastructure across diverse cloud platforms (GCP, Azure, OpenStack, AWS, Equinix) using powerful IaC tools like Terraform and Ansible. Drives operational efficiency by developing Python/Go-based system components, designing API-driven automation, and building streamlined CI/CD pipelines.

Technical Skills

Cloud Platforms: GCP, Azure, OpenStack, AWS, Equinix, on-premises systems

IaC & Config. Mgmt: Terraform, Ansible

CI/CD & DevOps: Drone, GitLab CI/CD, GitHub Actions, Jenkins, AWX, Radish framework, Jfrog Artifactory, Custom Registry Management

Programming: Python, Go (Golang), Bash, Ruby

Containerization: Kubernetes, Docker, Docker Swarm, Observability/Security Prometheus, Grafana, OPA Gatekeeper, OpenShift, Custom Operators, CRDs, Helm, Kustomize, Helm

Employment & Voluntary Experiences

Software Automation Developer

Nokia Inc., Ottawa

2022-present

- Drove comprehensive cloud integration and infrastructure provisioning across GCP, Azure, OpenStack, Equinix, and on-premises systems using Ansible and Terraform.
- Managed Google Cloud environment with Cloud Run, Cloud Functions, and Cloud Scheduler; utilizing GitLab pipelines for automated provisioning and resource deployment.
- Maintained and managed automated CI/CD pipelines using GitLab for streamlined code deployment.
- Engineered and integrated GKE for observability using Prometheus and Grafana, and managed security policies with OPA Gatekeeper; personally responsible for all installation and management.
- Led end-to-end SDLC for automation solutions, encompassing system design, implementation, and task distribution across multiple concurrent projects.
- Developed Go and Python application modules, automating their build, test, and release processes with Terraform, Helm, and Ansible.
- Designed and implemented FastAPI applications to trigger API-driven automation workflows, significantly boosting operational efficiency and system integration.
- Engineered and deployed robust Kubernetes solutions, including custom Operators, Helm charts, and CRDs, for scalable continuous deployment and application orchestration.
- Orchestrated comprehensive release and testing processes, enhancing Radish frameworks and developing Python unit tests for end-to-end validation.
- Built and maintained a secure, self-sustained Docker environment with HAProxy for load balancing, an artifact registry, and mTLS authentication.
- Authored detailed technical documentation for automation processes, system architectures, and deployments.

Devops Developer

KPM Power Inc., Toronto

2021-2022

- Optimized and expanded Ansible playbooks by creating modular roles to streamline automation processes.
- Developed and automated CI/CD pipelines utilizing Drone CI/CD and GitHub Actions for continuous delivery.
- Configured essential infrastructure services including DHCP (ISC DHCP), LDAP (OpenLDAP), DNS (BIND9), AWX with MicroK8s, and VPNs.
- Built and maintained a Docker ecosystem for MongoDB, MySQL, Eclipse Mosquitto, and Node.js within a Docker Swarm environment.
- Developed specialized Ansible playbook roles, including one for Clevis and LUKS disk encryption.

DevOps Engineer

Ozgur Yazilim A.S., Turkey

2019-2019

- Maintained and managed automated CI/CD pipelines using Jenkins for streamlined code deployment.
- Administered critical systems including Git, Ruby on Rails, SonarQube, OpenShift, PostgreSQL, MySQL, and Graylog.
- Built and deployed Docker containers for monolithic applications within Kubernetes environments.

Certifications & Technical Projects

- Certified Kubernetes Administrator (CKA)
- HashiCorp Certified: Terraform Associate (003)
- Technical projects, including a Python/Django File Manager and C++ Application, are detailed on my [portfolio website](#) or [GitHub page](#).

Education

Bachelor of Science in Computer Science,

York University, Toronto

2021- 2023

Coursework in Software Design, Design and Algorithm Analysis, Data Structure, Computer Organization, Logic, Computer Networks, Software Engineering.

Bachelor of Engineering in Computer Engineering,

Abant Izzet Baysal University, Turkey

2016-2019

Coursework in Signals and Systems, Embedded Systems, System Programming, Electric Circuits, Parallel Computing, Data Mining, Computer Architecture, Microprocessors, Automata Theory.