

SAFA BAYAR

+1 647 774 3325 | bayarsafa@gmail.com | safabayar.net | github.com/bayars

PROFESSIONAL SUMMARY

Versatile Software and Platform Engineer with 6+ years of hands-on experience spanning DevOps, Platform Engineering, Automation Development, Software Engineering, and technical project leadership. Designs and ships production systems end-to-end: from Go and Python application modules, FastAPI services, and LLM-powered agent platforms to the Kubernetes clusters, GitOps pipelines (ArgoCD), and multi-cloud infrastructure (GCP, Azure, AWS, OpenStack, Equinix) that run them. Equally comfortable coding the product, automating the delivery, and coordinating concurrent projects to release.

CORE COMPETENCIES

Software Development: Python, Go (Golang), Bash, Ruby, C++; FastAPI, Flask, Django; REST/API design; unit and end-to-end testing

AI / LLM Engineering: Classical and skill-based agent architectures; LLM-backed automation and maintenance workflows; prompt and tool-use integration

Platform & DevOps: Kubernetes (CKA, CKS), Docker, Docker Swarm, OpenShift, Helm, Kustomize, Custom Operators, CRDs

GitOps & CI/CD: ArgoCD, GitLab CI/CD, GitHub Actions, Drone, Jenkins, AWX, JFrog Artifactory, custom registry management

Infrastructure as Code: Terraform (Associate certified), Ansible, Helm

Cloud Platforms: GCP (GKE, Cloud Run, Cloud Functions, Cloud Scheduler), Azure, AWS, OpenStack, Equinix, on-premises

Observability & Security: Prometheus, Grafana, OPA Gatekeeper, Keycloak, mTLS, HAProxy

Data & Messaging: Kafka, Redis, Zookeeper, PostgreSQL, MySQL, MongoDB

Leadership: SDLC ownership, cross-team coordination, task distribution across concurrent projects, technical documentation

PROFESSIONAL EXPERIENCE

Software Automation Developer

2022 – Present

Nokia Inc., Ottawa, ON

- Design and maintain LLM-powered classical and skill-based agent platforms, including the application code, deployment pipelines, and long-term operational upkeep of agent services in production.
- Automate continuous deployment of multiple product lines with ArgoCD and GitOps workflows, standardizing release patterns across teams and reducing manual intervention in rollouts.
- Lead end-to-end SDLC for automation solutions: system design, implementation, code review, and task distribution across multiple concurrent projects.
- Develop Go and Python application modules and FastAPI services that expose API-driven automation workflows, significantly boosting operational efficiency and integration across internal tooling.
- Engineer and operate Kubernetes platforms including custom Operators, CRDs, and Helm charts for scalable deployment and application orchestration.
- Integrate GKE observability with Prometheus and Grafana, and enforce policy using OPA Gatekeeper — personally responsible for installation, configuration, and ongoing management.
- Drive cloud integration and infrastructure provisioning across GCP, Azure, OpenStack, Equinix, and on-premises using Terraform and Ansible.
- Manage Google Cloud workloads with Cloud Run, Cloud Functions, and Cloud Scheduler, orchestrated through GitLab CI/CD pipelines for automated provisioning.
- Design and operate a Redis, Kafka, and Zookeeper message bus feeding Grafana dashboards and downstream data-processing APIs.

- Build and maintain a secure, self-sustained Docker environment with HAProxy load balancing, a private artifact registry, and mTLS authentication.
- Integrate Keycloak-based authentication and identity management for secure access control across cloud and Kubernetes environments.
- Orchestrate release and testing processes, enhancing Radish BDD frameworks and developing Python unit and end-to-end tests.
- Configure virtual routers and network topologies using Containerlab for infrastructure simulation and testing.
- Author detailed technical documentation for automation processes, system architectures, and deployments, supporting onboarding and cross-team knowledge transfer.

DevOps Developer

2021 – 2022

KPM Power Inc., Toronto, ON

- Designed and built a Python Flask debugger web application (GUI and backend) that fully automated customer-facing functions including remote control, data transfer checks, and service restarts.
- Optimized and expanded Ansible playbooks with modular, reusable roles to streamline infrastructure automation.
- Built and automated CI/CD pipelines using Drone CI and GitHub Actions for continuous delivery.
- Installed and configured core infrastructure services: DHCP (ISC DHCP), LDAP (OpenLDAP), DNS (BIND9), AWX on MicroK8s, and VPNs.
- Built and maintained a Docker ecosystem for MongoDB, MySQL, Eclipse Mosquitto, and Node.js in a Docker Swarm environment.
- Developed specialized Ansible roles including one for Clevis and LUKS disk encryption.
- Automated secure password generation with a Ruby-based Diceware generator integrated with OpenLDAP.

DevOps Engineer

2019

Ozgur Yazilim A.S., Turkey

- Developed and maintained automated CI/CD pipelines with Jenkins for streamlined code deployment.
- Administered Git, Ruby on Rails, SonarQube, OpenShift, PostgreSQL, MySQL, and Graylog across development and production environments.
- Built and deployed Docker containers for monolithic applications running under Kubernetes.
- Automated email server operations for Postfix and Dovecot, including migration to CentOS 7 and PostgreSQL from MySQL.

CERTIFICATIONS & PROJECTS

- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Security Specialist (CKS)
- HashiCorp Certified: Terraform Associate (003)
- Additional technical projects (Python/Django File Manager, Ruby on Rails CMS, C++ Supermarket Management App, IoT Spine Ratio Diagnosis Device) are detailed on my portfolio website (safabayar.net) and GitHub (github.com/bayars).

EDUCATION

Bachelor of Science in Computer Science

2021 – 2023

York University, Toronto

Coursework: Software Design, Algorithm Analysis, Data Structures, Computer Organization, Logic, Computer Networks, Software Engineering.

Bachelor of Engineering in Computer Engineering

2016 – 2019

Abant Izzet Baysal University, Turkey

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