

FURKAN ALKILIÇ

System Architect & DevOps Specialist

Istanbul, Turkey

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PROFESSIONAL SUMMARY

System Architect & DevOps Specialist dedicated to building high-availability infrastructures and automated GitOps workflows. Specialized in API Gateway strategies (Kong), container orchestration (Kubernetes/Docker), and backend optimization.

SKILLS

- **Cloud & IaC:** Azure, Terraform
- **Orchestration:** Docker, Kubernetes, OpenShift, Rancher, Lens
- **API & Gateway:** Kong API Gateway, Nginx, Wallarm, Lua
- **CI/CD & Automation:** GitHub Actions, Jenkins, ArgoCD, Azure DevOps, Bash, Python
- **Observability:** Prometheus, Grafana, ELK Stack, Loki, Datadog
- **OS & Server:** Red Hat, Debian, Ubuntu
- **Data Stores:** PostgreSQL, Redis

ACHIEVEMENTS

Teknofest UAV Competition | Team Lead & Systems Architect | 2023 - 2025 | 3x Finalist

- Architected ROS-based flight control systems for 2 UAV platforms, implementing real-time data pipelines.
- Managed SDLC processes via Jira (150+ requirements), reducing architectural review cycles by 25%.
- Led a 5-engineer team through agile workflows including sprint planning and automated testing.

WORK EXPERIENCE

System Architect & API Gateway Specialist

Leading Cloud Services Provider

Istanbul, Turkey | 09/2023 - Present

- Deployed and managed High-Availability Kong API Gateway clusters; developed custom Lua plugins to enforce specific traffic control and security policies.
- Architected CI/CD pipelines on Azure DevOps to automate microservices and API Gateway deployments, significantly reducing manual release overhead.
- Maintained and optimized Docker-Kubernetes environments to ensure production workflow stability and efficient resource utilization.
- Developed automation scripts validation checks using Python, Lua, and Bash to streamline infrastructure tasks and operational processes.

PROJECTS

Riffle (Active)

Modern Microservices Architecture:

- Architected a multi-env system on Docker/K8s using Go & Node.js.
- Secured via API Gateway, WAF, and Zero Trust architecture.
- **Repo:** github.com/furkanalk/riffle

Engineering Project of the Year Awards

University:

- **2024 (1st Place Winner - 3rd Year):** UAV Tracking System. Built an MLOps pipeline for real-time object detection using PyTorch/YOLO and ArduPilot.
- **2023 (1st Place Winner - 2nd Year):** E-Commerce Platform. Architected containerized Django microservices with PostgreSQL running on Docker.
- **2022 (1st Place Winner - 1st Year):** Automation System. Developed a .NET-based process automation tool reducing manual workload by 40%.