Oktay Cem Kutlar

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Education

Koç University — Istanbul, Turkiye
B.Sc. in Computer Science; — *Sep 2018 – Jun 2023*

National University Admission Exam (YGS+LYS): Ranked 5145th in Mathematics and Science among ca. 2 million candidates. (Jul 2014)

Yeditepe University — Istanbul, Turkiye
Medicine (Incomplete) — *2014 – 2018 (incomplete)*

LSI Portsmouth — Portsmouth, UK
English Language School — *2014 – 6 months*

Certificates

AWS Certified Cloud Practitioner — *Sep 2024*
Click to validate, Validation Number: 3e01ce44cc834b6b8ed41f44261f3659

International English Language Testing System (IELTS) — *June 2025*
Overall Score: 7.5, Listening: 8.0, Reading: 8.5, Writing: 6.0, Speaking: 6.5 - CEFR Level C1

Skills

Programming & Scripting: Go, Python, Bash, Java

Containerization & Orchestration: Kubernetes, Docker, Helm, K3s, Juju, MAAS

Platform Engineering: Kubebuilder, Kubernetes Operators, Custom Resource Definitions (CRDs), Kubernetes API, RBAC, Internal Developer Tooling

Infrastructure as Code & Automation: Ansible, Terraform, Terragrunt, Helm, Kustomize

CI/CD & GitOps: GitLab CI/CD, GitLab Runner, Argo CD, Nexus

Cloud Platforms: AWS, Hybrid Cloud, On-Premises Infrastructure

AWS Services: EC2, S3, EKS, ALB, ECR, Fargate, Lambda, RDS, DynamoDB, IAM, CloudWatch, VPC, Cognito

Networking & Traffic Management: Nginx, HAProxy, BIND9, CoreDNS, Calico, Keepalived, Cloudflare, CloudFront, Medianova, TCP/IP, DNS, TLS/SSL

Observability & Monitoring: Prometheus, Grafana, Grafana Mimir, Grafana Loki, OpenTelemetry, Zabbix, Graylog, Alloy

Distributed Systems & Messaging: Apache Kafka, Redis, ZooKeeper, Kafka MirrorMaker 2

Storage & Persistence: Ceph, CephFS, NFS, CSI, LVM

Operating Systems: Linux, Ubuntu, macOS

Infrastructure & Reliability Engineering: High Availability, Disaster Recovery, Capacity Planning, Resource Optimization, Incident Management, Root Cause Analysis, Infrastructure Scalability

Methodologies & Architectural Patterns: DevOps, GitOps, CI/CD, Microservices, Serverless, SRE, Agile, Scrum, OOP, Functional Programming, Design Patterns

Currently Learning: Backstage, Istio, Nginx Gateway Fabric, Advanced AWS Architecture

Work Experiences

Bilyoner (DevOps Specialist) — Istanbul, Turkiye
DevOps Specialist — *2026 (July, ongoing)*

* Designing, implementing and optimizing scalable, highly available infrastructure within a large-scale hybrid cloud environment. Engineering and managing multi-datacenter Kubernetes platforms, developing disaster recovery and business continuity solutions, and improving the reliability of distributed systems. Developing internal platform engineering tools,

custom Kubernetes operators and infrastructure automation solutions using Go, Ansible and Helm. Implementing centralized observability architectures, optimizing workload resource utilization and infrastructure capacity, and improving CI/CD processes through deployment automation and governance mechanisms. Managing distributed technologies such as Kafka and Redis, designing network and traffic management solutions, evaluating public cloud technologies, and driving architectural improvements across production environments.

Bilyoner (Jr. DevOps Engineer) Istanbul, Turkiye

DevOps Engineer *2025 (January) – 2026 (July)*

* Working on a hybrid cloud environment and managing more than 170 microservices and 400 VMs, directly involve creation of disaster recovery solutions, implementing pipeline solutions, managing different kubernetes clusters and services, monitoring and resource management, involving on-call duties and maintain resilience of the system, involving PoC processes of public cloud providers, automating infrastructure deployment with Ansible, solving operational issues and improving the system architecture.

Bilyoner (Internship) Istanbul, Turkiye

DevOps Engineer *2024 (November, 3 months)*

* Experienced a huge datacenter migration, working on kubernetes deployments, setting istio(kiali) to visualize the network traffic of the whole system

KPMG Turkiye (Short term internship) Istanbul, Turkiye

Cyber Security *2023 (August–September)*

* Analyzed the security software used by the client to identify potential vulnerabilities and ensure compliance with best security practices.

hepsiJET (Short term internship) Istanbul, Turkiye

Team Member in Algorithm Development *2021 (July–August)*

* Worked on the Delivery Distribution Simulator, contributing to the Route Optimization Project to enhance logistics efficiency.

Izmir Genom and Biomedicine Center Nanophotonics and Biodetection Systems Lab Remote

Team Member in Image Tracking Project *2021*

* Worked under the supervision of Arif Engin Çetin, PhD, on tracking images on medical videos using OpenCV.

Projects

Custom Kubernetes Secret Operator | *Go · Kubebuilder · CRDs · Kubernetes API*

* Developed a custom Kubernetes operator using Go and Kubebuilder to automate secret management through custom resources and reconciliation mechanisms connected with Jira. Enables secret owners to securely create Kubernetes secrets without sharing them with anyone. Audit, ownership and purpose are tracked.

Multi-CDN Cache Rule Converter | *Go · Terraform · Cloudflare · AWS*

* Implemented a converter that generates Terraform code for cache rules in a multi-CDN environment, from Cloudflare to CloudFront.

Automated CI/CD Deployment Governance | *GitLab CI/CD · Jira API · Helm · Kubernetes*

* Implemented deployment governance mechanisms integrating automated approval validation, deployment windows, authorization controls and concurrency management into CI/CD pipelines.

Multi-Datacenter Disaster Recovery | *Kubernetes · Ansible · NFS · Linux · HA*

* Developed and maintained disaster recovery solutions across geographically distributed datacenters, incorporating workload distribution, persistent data synchronization and infrastructure redundancy.

Kubernetes Resource Optimization | *KRR · Prometheus · Mimir · Kubernetes · JVM*

* Developed a metrics-driven approach to Kubernetes workload right-sizing, identifying overprovisioned resources and analyzing application memory consumption to improve infrastructure efficiency.

Auto-Renewed SSL Generator | *Let's Encrypt · Linux · Bash · Nginx*

* Provided auto-renewed SSL certificates for non-production domains using Let's Encrypt.

Hobbies

New technologies, Music production, Drum, Guitar, Video Games, Basketball