BURAK TUNGUT

Founder & External CTO @ TungOps | Former Microsoft

📞 +90 532 137 83 78   @ burak.tungut@tungops.com.tr   🔗 https://linkedin.com/in/btungut
🔗 https://github.com/btungut   📍 Turkey   ☆ Aim: Head of Engineering | External CTO | Principal Architect

SUMMARY

Technology executive, architect, and founder with **over a decade of experience** designing, delivering, and operating **large-scale, production-critical distributed systems** across **cloud, hybrid, and fully on-prem environments**.

I most recently served as a **Cloud Solution Architect and Engineering Leader at Microsoft**, leading complex enterprise modernization programs across **Türkiye, the Middle East, and Europe**. In this role, I operated not only as a senior technologist, but as a **decision-maker and trusted authority**, working directly with **CTOs, CIOs, and executive leadership teams** to define platform strategy, operating models, and long-term technology direction.

My background spans **modern and legacy enterprise stacks**, including **.NET (legacy & modern), Go, Node.js, and Java**, with a strong focus on **distributed systems architecture, platform engineering, and DevOps/GitOps transformation**. I have designed and governed systems built on **Kubernetes (AKS, Rancher, and other distributions)**, event-driven and message-based backbones, and automation-first delivery models.

I bring deep, hands-on expertise in **architectural and integration patterns** required to run systems reliably at scale, including (but not limited to) **event-driven architecture, CQRS, outbox pattern, idempotent consumers, saga-based orchestration, async messaging, eventual consistency, and failure-resilient design**. These patterns were not applied theoretically, but used to solve **real-world problems** such as data consistency, cross-system coordination, high-throughput processing, and zero-downtime modernization.

A defining strength of my career has been enabling **hyperscaler-level engineering standards**—scalability, resilience, automation, and observability—even in **vendor-restricted or fully on-prem environments**, using **open-source ecosystems and vendor-agnostic principles**. I consistently demonstrated that **excellent architecture is an engineering and leadership discipline, not a cloud dependency**.

Beyond architecture and delivery, I have led organizations through **critical technology decisions**: setting multi-year roadmaps, modernizing legacy platforms without disrupting business operations, building internal developer platforms, and establishing engineering standards that scale across teams. I am equally comfortable **making strategic calls**, owning outcomes, and being accountable for **delivery, reliability, and business impact**.

Today, as the **Founder of TungOps**, I apply the same **production-first, Design–Build–Run mindset** to help enterprises modernize mission-critical systems, design internal platforms, and operate distributed architectures with confidence—effectively acting as an **external CTO and Architecture Board** for technology-driven organizations.

Additional Highlights

▤ Open-source contributor with publicly adopted projects across cloud-native, DevOps, and observability ecosystems

▤ Frequent speaker on **technology leadership, career development, modern engineering culture, distributed systems, DevOps, and platform engineering**

▤ Content creator and educator, producing in-depth technical and career-focused materials for senior engineers and engineering leaders

▤ Author of technical books **Algoritma ve Programlama Mantığı (***Algorithms and Programming Fundamentals***) — one of Turkey's best-selling books on algorithms**, and **ASP.NET Web API**

SKILLS

LEADERSHIP & MANAGEMENT

Engineering Leadership

Decision Ownership

Delivery Accountability

Executive Stakeholder Management

Mentorship & Coaching

Executive Technology Advisory

ARCHITECTURE & DESIGN

Distributed Systems Architecture

Event-Driven Architecture

Microservices Architecture

Platform Engineering

Architecture Governance

Hybrid Cloud Architecture

System Design

SYSTEM PATTERNS

CQRS   Outbox Pattern   Saga Pattern

Eventual Consistency

Idempotent Consumers

Async Messaging Patterns

Failure-Resilient Design

PROJECTS

Azure DevOps Agent on Kubernetes

🔗 https://github.com/btungut/azure-devops-agent-on-kubernetes

The easiest and most effective method for creating and managing **Azure DevOps agents on Kubernetes**, without the need to spend time and effort wrestling with settings! Scale-out as much as is necessary and demolish them gracefully.

- **https://github.com/btungut**

EXPERIENCE

Founder & External CTO (Principal Architect)

TungOps

📅 07/2025 - Present   📍 Turkey

🔗 https://www.tungops.com.tr

TungOps is a production-first engineering consultancy focused on designing, building, and operating mission-critical software systems across cloud, hybrid, and fully on-prem environments.

I founded TungOps to act as an external CTO and Architecture Board for enterprises facing complex modernization, scalability, and operational challenges. My role goes beyond advisory—owning architectural decisions, aligning engineering teams, and ensuring systems are reliable, observable, and resilient in real production conditions.

I work directly with CTOs, CIOs, and executive leadership to stabilize fragile platforms, modernize legacy systems, and establish sustainable operating models using a **Design–Build–Run** delivery approach. Engagements typically start where internal teams are blocked: unclear architecture, accumulated technical debt, low delivery confidence, or operational risk.

What this means in practice

- Taking ownership of broken or high-risk architectures and making them production-ready

- Providing clear architectural direction and decision-making authority

- Aligning engineering teams around scalable delivery and operational standards

- Ensuring every engagement ends with a running, observable, and operable system — not a report

Technical Scope & Engineering Focus

TungOps operates at the intersection of architecture, delivery, and operations for enterprise-grade systems. Typical areas of ownership include:

- Distributed system architecture for business-critical workloads across cloud, hybrid, and on-prem environments

- Platform and Kubernetes engineering, including internal developer platforms and standardized runtime foundations

- DevOps & GitOps operating models enabling repeatable, auditable, and production-safe delivery

- Observability-first system design covering logs, metrics, traces, and SLO-driven operations

- Resilience and disaster-recovery architectures aligned with RTO/RPO and business-continuity requirements

Technology choices are always contextual. Tools and platforms are selected based on operational fit, organizational maturity, and long-term sustainability — not trends or vendor alignment.

TungOps is intentionally vendor-agnostic and outcome-driven. The focus is not on introducing new tools, but on reducing operational risk, restoring delivery confidence, and building systems that teams can operate and evolve with clarity.

PROJECTS

Fluentd Kube Elastic

🔗 https://github.com/btungut/fluentd-kube-elastic

Regardless of whether your container logs are plain-text or json! This fluentd implementation collects, parses, and sends all types of log entries to Elasticsearch.

- **https://github.com/btungut**

Azure KeyVault Secret Operator for Kubernetes

🔗 https://btungut.github.io/kubernetes-azure-keyvault-secret-operator/

A minimal, platform-agnostic Kubernetes operator that syncs Azure Key Vault secrets into your cluster with a single manifest.

No CSI driver, no Azure Arc—just a Service Principal with access to your Key Vault.

- **https://github.com/btungut**

kubeconfig-merge CLI Tool

🔗 https://github.com/btungut/kubeconfig-merge

kubeconfig-merge is a lightweight and efficient CLI tool designed to merge multiple Kubernetes kubeconfig files into a single, well-structured configuration. It ensures that the resulting configuration is clean, free of conflicts, and compatible with kubectl and other Kubernetes clients.

- **https://github.com/btungut**

LANGUAGES

English
Proficient   ●●●●○

Türkçe
Native   ●●●●●

ADDITIONAL SKILLS

DEVOPS & CI/CD

YAML   Azure DevOps Pipelines

GitHub Actions   Argo CD   FluxCD

CI/CD Platform Engineering

CLOUD & KUBERNETES

Cloud & On-Prem Architectures

Kubernetes   Multi-Cluster Kubernetes

Docker   Helm   Terraform   Ansible

Infrastructure as Code   Linux   AKS

Rancher

EXPERIENCE

Cloud Solution Architect & App Innovation Lead

Microsoft

📅 12/2018 - 12/2025   📍 Turkey

As a **Cloud Solution Architect & App Innovation Lead at Microsoft**, I led large-scale **enterprise cloud, platform, and application modernization initiatives** across Türkiye, the Middle East, and Europe—operating at the intersection of **deep engineering execution, platform architecture, and executive-level strategy**.

My role extended far beyond traditional solution architecture. I consistently acted as a **trusted technical authority and transformation partner** for organizations navigating complex modernization journeys, helping them design, build, and operate **resilient, scalable, observable, and production-grade systems** across **Azure, hybrid, and on-prem environments**.

Importantly, **cloud adoption was never treated as a prerequisite**. For organizations that were **unable or unwilling to move to the cloud**, I delivered the **same production-grade architecture, observability, resilience, and automation standards** on fully **on-premise infrastructures**, leveraging **open-source platforms and cloud-native patterns without vendor lock-in**.

I collaborated with **hundreds of organizations**, ranging from highly regulated enterprises and industry leaders to fast-growing technology companies, addressing challenges related to **distributed systems, Kubernetes platforms, DevOps & GitOps transformation, and legacy application modernization**—regardless of whether the target environment was **public cloud, hybrid, or strictly on-prem**.

Throughout my engagements, I worked **directly with C-level executives (CTO, CIO, Heads of Engineering and Platform teams)** to define **multi-year modernization roadmaps**, shape **platform and operating models**, and ensure **strong alignment between business strategy and technical execution**.

Whether modernizing mission-critical legacy systems or designing greenfield platforms from scratch, I consistently delivered **secure, future-ready, observable, and resilient architectures—using cloud-native principles even in non-cloud environments**, and proving that **excellent architecture is an engineering discipline, not a cloud dependency**.

- Designed and delivered production-grade **Kubernetes** platforms across cloud, hybrid, and fully **on-prem environments**, running on **Azure Kubernetes Service (AKS)**, **Rancher-managed Kubernetes**, and other Kubernetes distributions, aligned with security, compliance, and operational constraints.
- Applied cloud-native architectural principles to **non-cloud infrastructures** using **open-source technologies**, achieving scalability, resilience, observability, and automation **without vendor dependency**.
- Led enterprise **DevOps** and **GitOps** transformations, standardizing delivery workflows using **Azure DevOps Pipelines** and **GitHub Actions**, with GitOps-based deployments via **Argo CD and FluxCD**.
- Automated infrastructure and configuration management using **Terraform** and **Ansible**, enabling repeatable, environment-consistent deployments across **cloud** and **on-prem** platforms.
- Built and **scaled CI/CD** execution platforms on both **AKS** and **on-prem** Kubernetes clusters, enabling dynamic agent provisioning, workload isolation, and measurable reductions in pipeline execution times.
- Implemented unified observability and **telemetry** architectures for **.NET (4.x–9), Go, and Node.js** services using **OTLP**-based pipelines, integrating with Azure Monitor as well as fully open-source observability stacks.
- Modernized complex **legacy .NET** applications, applying layered architecture refactoring, performance optimization, and production-level memory and dump analysis across hybrid environments.
- Acted as a strategic technical advisor to **executive leadership**, guiding platform and architecture decisions based on **business value**, operational efficiency, and long-term sustainability rather than vendor alignment.

ADDITIONAL SKILLS

OBSERVABILITY & RELIABILITY

| OpenTelemetry | OTLP | Prometheus |

| Grafana | Tempo | Loki |

| SLO / SLI / Error Budgets |

| Incident Management |

LOGGING & SEARCH

| Elasticsearch | Kibana | Logstash |

| Fluentd | Fluent Bit |

SECURITY

| Security-Aware Architecture |

| Secrets Management | IAM / RBAC |

| Secure CI/CD |

| Compliance-Aware Design |

| Hashicorp Vault |

PUBLICATIONS

Algoritma ve Programlama Mantığı, 23rd Edition

Publishing Company / Journal

KODLAB

📅 Date period
🔗 https://www.kodlab.com/programlama/19-algoritma-ve-programlama-mantigi-9786055201241.html

C++, Java, C#

Asp.Net Web API ve Mimari Özellikleri, 2nd Edition

Publishing Company / Journal

KODLAB

📅 Date period
🔗 http://www.kodlab.com/BookDetail.aspx?ID=137733

.NET 4+

EXPERIENCE

Engineering Manager
Boyner Grup

📅 12/2016 - 12/2018   📍 Istanbul, Turkey

As an **Engineering Manager at Boyner Group**, I held end-to-end **technical delivery and architecture ownership** for multiple **high-traffic, mission-critical e-commerce platforms**, including **Beymen, BeymenClub, and WePublic**.

My role spanned both **hands-on architectural leadership and engineering management**, operating at the intersection of **business strategy, system design, and execution at scale**.

During this period, I worked as a **Software Architect at Morhipo**, focusing on scalable platform architecture, while simultaneously serving as a **Software Delivery Lead at Boyner Innovation Lab**, leading cross-functional teams responsible for delivering business-critical initiatives. I was accountable not only for system design, but also for **delivery outcomes, platform stability, and long-term maintainability** across multiple teams and products.

I worked closely with business stakeholders, product teams, and IT leadership to translate **business requirements into robust technical solutions**, ensuring that architecture, delivery processes, and team structures could sustainably support rapid growth, campaign-driven traffic spikes, and continuous feature development.

- Owned **end-to-end business and technology delivery** for high-traffic, mission-critical e-commerce platforms, ensuring reliability, performance, and scalability during peak campaign periods.
- Designed and evolved **scalable, distributed architectures** supporting continuous growth, high availability, and rapid feature delivery across multiple teams and products.
- Led cross-functional engineering teams, driving **architecture, execution, and production readiness** from requirements analysis through deployment and operations.
- Established **engineering standards and architectural conventions**, conducting code reviews and improving code quality, maintainability, and long-term sustainability.
- Acted as the primary interface between **business stakeholders, product teams, and engineering**, translating business requirements into clear technical roadmaps and execution plans.
- Defined and managed s**hort- and long-term technology roadmaps**, prioritizing initiatives based on business impact, technical risk, and delivery feasibility.
- Continuously improved **software development, build, and deployment processes**, introducing automation and modern delivery practices.
- Led the adoption of **distributed platforms and integration patterns**, including search and observability with **Elasticsearch**, **Kibana**, and **Logstash**, and event-driven architectures using **Kafka, RabbitMQ, ZooKeeper**, and Azure Service Bus.
- Designed and operated **microservices and SOA-based systems** on containerized platforms such as **Azure Kubernetes Service** (AKS) and **OpenShift**, enabling independent deployments and team autonomy.
- Implemented and evolved **CI/CD pipelines** using **Azure DevOps** and **Jenkins**, improving release reliability, deployment frequency, and operational stability.
- Designed cloud and platform integrations using **Azure App Services and Azure API Management**, supported by distributed caching strategies with **Redis**.

EXPERIENCE

Software Architect
Business Integration Services

📅 06/2016 - 12/2016 📍 İstanbul, Turkey

BIS is a software company delivering enterprise solutions across **banking, factoring, and human resources** domains.

As a **Software Architect**, I was responsible for shaping **solution architectures and technical roadmaps** for new products and complex business problems, working closely with both business stakeholders and engineering teams.

I contributed to the **design and development of enterprise-grade applications**, ensuring alignment with defined roadmaps, delivery timelines, and quality standards. A key part of my role involved **evaluating, introducing, and adapting relevant technologies** to address domain-specific challenges while maintaining long-term maintainability and scalability.

Software Engineer
Kariyer.net

📅 06/2015 - 06/2016 📍 İstanbul, Turkey

Software Engineer Trainee
XOMNI

📅 07/2013 - 09/2014 📍 İstanbul, Türkiye

Fullstack Developer
Freelance, self-employed

📅 01/2010 - 01/2013 📍 Turkey

EDUCATION

Master of Business Administration (M.B.A.), Social Sciences
Bahcesehir University

📅 01/2016

Bachelor of Science (BS), Computer Engineering
Suleyman Demirel University

📅 Date period

Mathematics and Physics
Gonen Anatolian High School

📅 Date period