

Kostiantyn (Constantine) Tikus

Solutions Architect, Azure & .NET Expert, Cloud-Native Transformations, Microservices, DevOps

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SUMMARY

18+ years architecting and delivering enterprise-scale cloud solutions on Azure for global clients including Volvo Cars, Cembra Pay, Intrum, and HomeTrust Bank.

EXPERTISE:

- Cloud-native architecture design (microservices, Kubernetes, serverless)
- Azure ecosystem mastery (AKS, Service Bus, API Management, Data Factory, CosmosDB)
- Leading cross-functional teams through complex technical transformations
- DevOps & Infrastructure as Code (Bicep, Terraform, ARM, CI/CD pipelines)

RECENT IMPACT:

- Architected and led development of a greenfield .NET 10 microservices platform (HaaS) from system design through implementation
- Designed and executed cloud migration strategies with zero-downtime deployments
- Acted as senior individual contributor and technical owner, driving architecture decisions and mentoring across engagements
- Implemented automated CI/CD pipelines and DevOps modernization reducing deployment complexity and improving system reliability

I solve complex technical challenges by combining deep Azure/.NET expertise with pragmatic architecture decisions that balance innovation with business needs. Passionate about building scalable, resilient systems and fostering collaborative engineering cultures.

Currently: Senior Software Engineer / Solutions Architect at Zont

Available for: Consulting, architecture reviews, speaking engagements

Core Technologies: Azure, .NET/.NET Core, C#, Kubernetes, Microservices, DevOps, CI/CD, Infrastructure as Code

EXPERIENCE

Senior Software Engineer / Solutions Architect

Zont | May 2023 - Present

Contracting umbrella company through which I have delivered successive client engagements in software architecture and backend engineering.

OrderlyMeds — HaaS Platform | January 2026 - Present

Senior backend engineer and architect for a greenfield Healthcare as a Service (HaaS) platform, acting as both technical owner and lead implementer.

Key Achievements:

- Architected and led development of a .NET 10 microservices platform consisting of 7 independently deployable APIs covering identity, catalog, clinical, commerce, screening, consultation, and integration domains
- Designed system architecture including service boundaries, inter-service communication patterns, a hierarchical multi-tenancy model, and cross-cutting infrastructure concerns
- Built RESTful APIs using ASP.NET Core minimal APIs with Wolverine.Http, implementing tenant-scoped multi-tenancy, JWT authentication via AWS Cognito, and role-based authorization policies
- Implemented PostgreSQL persistence with EF Core 10: code-first migrations, optimistic concurrency
- Integrated multiple external healthcare providers via resilient typed HTTP clients with retry policies
- Built asynchronous event-driven workflows using Wolverine + AWS SNS/SQS, including domain event publishing and webhook delivery
- Defined and enforced platform-wide coding standards, API conventions, and a structured multi-stage development workflow (requirements !' design !' implementation !' review)
- Implemented cross-cutting infrastructure: idempotency middleware, ETag/conditional requests, JSON Merge Patch (RFC 7396), ProblemDetails error responses, and OpenAPI documentation

- Orchestrated local development environment using .NET Aspire with Dockerized PostgreSQL, LocalStack (S3), and service discovery
- Wrote integration tests using NUnit + Testcontainers against real PostgreSQL instances

Tools & Technologies: C#, .NET 10, ASP.NET Core (Minimal APIs), Wolverine / Wolverine.Http, PostgreSQL, EF Core 10, AWS Cognito, AWS SNS/SQS, AWS S3, .NET Aspire, Docker, LocalStack, NUnit, Testcontainers

Cembra Pay | April 2024 - December 2025

Senior individual contributor and technical owner across two core payment platforms, with primary focus (80%+ of time) on system architecture, software development, DevOps, and CI/CD modernization.

Key Achievements:

- Led CI/CD pipeline modernization: migrated from legacy approaches to container-based workflows, transitioned from classic .NET to modern .NET, and supported infrastructure and datacenter migrations — reducing legacy risk and improving deployment reliability
- Designed and implemented integration testing framework enabling continuous automated execution of integration tests, improving early defect detection and overall system stability
- Implemented fully automated developer workstation setup using PowerShell, reducing environment provisioning time from approximately one week to under five hours
- Automated migration from vendor-managed development machines to internally managed environments
- Collaborated with Support Specialists, Infrastructure Team, Developers, Test Engineers, and InfoSec Team to troubleshoot and resolve corporate environment issues, driving improvements to reduce recurring issues for the IT team

Collaboration & Leadership:

- Worked with backend, frontend, and QA teams as well as system architects; contributed to design discussions and cross-team alignment
- Mentoring activities as part of senior engineering role

Tools & Technologies: C#, .NET / .NET Core, ASP.NET Web API, PowerShell, Docker, Git, Azure DevOps, CI/CD pipelines, integration testing frameworks

Altudo | May 2023 - April 2024

Senior software engineer contributing to .NET backend development across enterprise client projects.

Key Achievements:

- Developed and maintained RESTful APIs using ASP.NET Core and .NET, implementing business logic and data access layers
- Worked with relational databases using Entity Framework Core, including schema migrations and query optimization
- Participated in code reviews, contributing to code quality and adherence to engineering standards
- Supported CI/CD pipeline maintenance and deployment processes using Azure DevOps
- Collaborated with cross-functional teams including frontend developers, QA engineers, and product stakeholders
- Wrote unit and integration tests to ensure correctness and maintainability of backend services

Tools & Technologies: C#, .NET / .NET Core, ASP.NET Web API, Entity Framework Core, SQL Server, Git, Azure DevOps, Docker

Senior Software Engineer / Solutions Architect

Atea Global Services Ltd. Jan 2021 - May 2023 (2 years 5 months)

Delivered cloud-native solutions for enterprise clients across Northern Europe, focusing on Azure modernization and microservices transformation.

Key Achievements:

- Architected and delivered 5+ microservices-based solutions on Azure, serving clients in financial services and public sector
- Led cloud migration projects moving monolithic .NET applications to containerized microservices on Azure Kubernetes Services
- Designed event-driven architectures using Azure Service Bus and Azure Functions, more than doubling system throughput (requests per second)
- Implemented comprehensive DevOps practices with GitOps workflows, achieving 50+ deployments per week with rollback capability
- Built reusable Infrastructure as Code templates (Bicep, Terraform, ARM) accelerating new project delivery by 40%
- Mentored team of 8-12 developers on cloud architecture patterns, code quality, and DevOps best practices

Technical Leadership:

- Primary technical contact for client engagements, translating business requirements into technical solutions
- Established architecture governance and code review standards across multiple projects
- Led proof-of-concept initiatives for emerging Azure services (CosmosDB, API Management, Data Factory)

Tools & Technologies: C#, ASP.NET Web API, Azure Kubernetes Services, Azure App Services, API Management, Azure Data Factory, Azure Functions, Azure Service Bus, Azure Key Vault, Azure SQL, CosmosDB, Git, OctopusDeploy, Azure DevOps, Bicep, Terraform, ARM

Senior Software Engineer / Consultant

HomeTrust Bank Dec 2020 - Jul 2021 (8 months) - Concurrent consulting engagement

Consulting engagement focused on Azure cloud modernization and DevOps transformation for regional banking operations.

Key Achievements:

- Architected cloud migration strategy for core banking integration systems, moving from on-premises to Azure PaaS services
- Designed event-driven integration platform using Azure Functions and Service Bus, processing 100K+ daily banking transactions
- Implemented automated CI/CD pipelines with Azure DevOps, reducing release cycle from monthly to weekly cadence
- Established code quality standards and review processes, reducing production defects by 60%
- Designed data transformation workflows using Azure Data Factory for regulatory reporting and analytics
- Provided technical leadership on security best practices (Key Vault integration, managed identities, network isolation)

Impact: Delivered scalable integration architecture enabling the bank to onboard new partners 3x faster while maintaining strict compliance requirements.

Tools & Technologies: C#, ASP.NET Web API, App Services, API Management, Azure Data Factory, Azure Functions, Azure Service Bus, Azure Key Vault, Azure SQL, CosmosDB, Git, Azure DevOps

Senior Software Engineer / Technology Architect

Intrum Jan 2019 - Dec 2020 (2 years)

Led architecture and system analysis team for European credit management services company, driving technical transformation initiatives across 15+ markets.

Key Achievements:

- Team Leadership: Directed team of 4-6 architects and analysts in designing enterprise-scale solutions for debt collection and credit management systems
- Architected microservices-based platform migration from monolithic .NET applications, improving deployment frequency by 10x
- Designed multi-tenant SaaS architecture serving 15+ European markets with localized compliance requirements
- Implemented event-driven architecture for real-time payment processing and customer communication workflows
- Established DevOps culture and practices: automated builds (TeamCity), infrastructure provisioning (PowerShell DSC), and deployment orchestration (Octopus Deploy)
- Led technical assessments and technology selection for greenfield projects, balancing innovation with operational stability
- Mentored 10+ developers on architecture principles, design patterns, and .NET Core best practices

Technical Innovation:

- Introduced CakeBuild for build automation, standardizing CI/CD across 20+ repositories
- Designed API gateway pattern for legacy system integration, enabling gradual modernization
- Created reusable architecture templates and documentation accelerating new service development by 50%

Tools & Technologies: .NET Web API, C#, .NET Core, MS SQL Server, Microservices architectures, Git, TeamCity, Octopus Deploy, CakeBuild, PowerShell, DSC

Senior Software Engineer / Technology Architect

Byjuno AG/Cembra Pay Feb 2019 - Nov 2019 (10 months) - Concurrent consulting engagement

Technical consulting engagement for Swiss payment services provider, focusing on system modernization and infrastructure optimization.

Key Achievements:

- Conducted comprehensive technical assessment of payment processing platform, identifying critical refactoring opportunities and technical debt
- Designed multi-phase refactoring roadmap for transitioning monolithic application to microservices architecture, prioritized by business value
- Architected zero-downtime data center migration strategy for mission-critical payment systems, successfully migrated 12 applications with 99.99% availability
- Implemented CI/CD best practices and pipeline templates using TeamCity and Octopus Deploy, reducing deployment errors by 70%

- Established Infrastructure as Code practices with PowerShell DSC for automated server provisioning and configuration management
- Led proof-of-concept for .NET Core migration, demonstrating 40% performance improvement and cross-platform deployment capability
- Provided technical mentoring to development team on microservices patterns, async programming, and cloud-ready architecture principles

Impact: Delivered actionable modernization roadmap adopted by the company, laying foundation for future cloud migration and improved system scalability.

Tools & Technologies: .NET Web API, C#, .NET Core, MS SQL Server, Microservices architectures, Git, TeamCity, Octopus Deploy, CakeBuild, PowerShell, DSC

Senior Software Engineer / Solution Architect

Accenture Dec 2017 - Jan 2019 (1 year 2 months)

Solution architect for enterprise clients, leading Azure cloud adoption and API-first architecture initiatives.

Key Achievements:

- Architected cloud-native solutions on Azure for multiple enterprise clients, reducing infrastructure costs by 30-40% compared to on-premises
- Designed and implemented API Management strategy and governance framework for large-scale API ecosystem (100+ APIs)
- Led team of 6-8 engineers delivering microservices-based solutions using Azure App Services and Cloud Services
- Primary technical liaison with C-level stakeholders, translating business requirements into technical roadmaps and architectural decisions
- Implemented Infrastructure as Code using ARM templates, enabling consistent environment provisioning across dev/test/production
- Established architecture review board process and technical standards for Azure development across multiple project teams
- Designed integration architecture connecting legacy on-premises systems with cloud-native Azure services

Technical Delivery:

- Led end-to-end delivery of 3+ major projects from architecture through deployment
- Implemented CI/CD pipelines with TeamCity and Octopus Deploy, achieving 95%+ deployment success rate
- Conducted architecture assessments and provided recommendations for system modernization and Azure migration

Tools & Technologies: C#, ASP.NET Web API, ARM templates, App Services, Cloud Services, API Management, Git, TeamCity, Octopus Deploy

Senior Software Engineer / Team Lead

Accenture Jan 2016 - Dec 2017 (2 years)

Team Lead for Volvo Cars Corporation

Led development team delivering cloud-based solutions for Volvo Cars' digital transformation initiatives in the automotive industry.

Key Achievements:

- Team Lead for 8-10 software engineers delivering connected car platform services on Azure
- Architected RESTful API infrastructure supporting Volvo's mobile apps and connected vehicle services used by millions of customers
- Designed and implemented scalable microservices architecture on Azure for vehicle telematics, remote control features, and customer engagement
- Led Azure migration initiative for critical automotive services, achieving 99.95% uptime SLA
- Established agile engineering practices: sprint planning, daily standups, retrospectives, and continuous improvement culture
- Implemented comprehensive DevOps practices with automated CI/CD pipelines reducing release cycles from quarterly to bi-weekly
- Key technical liaison with Volvo Cars stakeholders in Sweden, managing requirements, demos, and technical alignment

Technical Leadership:

- Drove architecture decisions balancing performance, scalability, security, and automotive industry compliance
- Implemented rigorous code review standards and mentoring programs, improving team code quality by 40%
- Led technical interviews and onboarding, growing team from 4 to 10 engineers over 2-year period
- Designed API governance strategy and development guidelines adopted across multiple teams

Tools & Technologies: C#, ASP.NET Web API, Microsoft Azure suite including ARM templates, App Services, Cloud Services, API Management, Git, TeamCity, Octopus Deploy

Software Engineer

C.T.Co Jun 2014 - Dec 2015 (1 year 7 months)

Full-stack software engineer building cloud-based SaaS applications on Windows Azure platform.

Key Achievements:

- Developed scalable multi-tenant SaaS architecture on Windows Azure (Cloud Services, Storage, SQL Azure)
- Implemented RESTful APIs using ASP.NET Web API serving web and mobile clients
- Built responsive web applications with TypeScript and Knockout.js for modern single-page application experience
- Designed NoSQL data models using MongoDB for high-volume document storage and real-time analytics
- Implemented comprehensive unit testing strategy using NUnit, achieving 80%+ code coverage
- Applied dependency injection patterns with Unity IoC container for maintainable and testable code architecture

Tools & Technologies: MS Visual C# .NET, ASP.NET Web API, Windows Azure, MongoDB, TypeScript, Knockout.js, NUnit, Unity IoC

Software Engineer

Accenture Nov 2012 - Jun 2014 (1 year 8 months)

Software engineer developing enterprise applications and mobile solutions for global clients.

Key Achievements:

- Designed and developed enterprise web applications using ASP.NET MVC and MS SQL Server for clients across multiple industries
- Built Windows 8 modern apps (Metro UI) with XAML and C#, delivering innovative tablet experiences
- Developed Windows Azure Mobile Services backend for cross-platform mobile applications
- Mentored 3-5 junior developers on .NET best practices, code quality, and software design principles
- Conducted code reviews and established coding standards ensuring maintainability and consistency
- Participated in full SDLC from requirements analysis through deployment and support
- Contributed to technical architecture decisions for client projects

Tools & Technologies: MS Visual C# .NET, ASP.NET MVC, MS SQL Server 2008, Windows Azure Mobile Services, Windows 8 Apps, Windows Mobile 6.5, XAML

EDUCATION

Lomonosov Moscow State University (MSU) Master of Science (M.Sc.), Applied Mathematics / Computer Science

Sep 2002 - Jul 2007

Specialized in computational mathematics, algorithms, data structures, and software engineering. Strong foundation in mathematical modeling, discrete mathematics, and computer science theory.

LICENSES & CERTIFICATIONS

Microsoft Certifications:

- Microsoft Certified: Azure Fundamentals (AZ-900) - Microsoft
- Exam 483: Programming in C# - Microsoft
- Exam 480: Programming in HTML5 with JavaScript and CSS3 - Microsoft

Professional Certifications:

- Technology Architect Associate Accenture Certification - Accenture
- Development, design, and modern architecture of programming systems based on object-oriented languages - SoftServe University

SKILLS, TOOLS & TECHNOLOGIES

Category	Technologies
Languages	C#, PowerShell, Bash
Frameworks	.NET / .NET Core / .NET 10, ASP.NET Web API, ASP.NET Core (Minimal APIs), ASP.NET MVC, Wolverine / Wolverine.Http

Cloud (Azure)	App Services, Functions, AKS, Service Bus, Key Vault, CosmosDB, API Management, Data Factory, SignalR, Front Door, Application Gateway, Load Balancer, Traffic Manager, VNet, Redis, VM/Scale Sets, Container Registry
Cloud (AWS)	Cognito, SNS, SQS, S3
Databases	SQL Server, Azure SQL, PostgreSQL, CosmosDB, MongoDB
APIs	REST (OpenAPI), gRPC, GraphQL, WCF/SOAP, WebSockets
Messaging	Azure Service Bus, RabbitMQ, AWS SNS/SQS
DevOps & CI/CD	Git, GitHub Actions, Azure DevOps, GitLab, TeamCity, Octopus Deploy, CakeBuild
Containers	Docker, Kubernetes, Helm, Azure Container Registry, .NET Aspire, LocalStack
IaC	Bicep, ARM Templates, Terraform
Web Servers	IIS, Nginx
Testing	xUnit, NUnit, Moq, Testcontainers
IoC	Unity IoC, StructureMap
Architecture	Microservices, SOA, Technical Management, DevOps, IaC
AI-Assisted Development	Claude Code, GitHub Copilot, Multi-agent workflows