

KUBILAY BAYRAKTAR

Software Architect · Team Leader · AI Product Builder

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PROFILE

Software architect with experience since 2006 across enterprise applications, cloud infrastructure, industrial systems and international Agile teams. Combines hands-on engineering and team leadership with independent AI product development. Focused on maintainable architecture, verified AI outputs and user-controlled agent workflows.

CURRENT EXPERIENCE

Metus - Software Architect | Feb 2015 - Present

- Architected enterprise applications with .NET Core and React on Microsoft Azure App Services and Managed SQL Server.
- Implemented microservices with Ocelot API Gateway and Azure Service Bus; optimized query performance with Azure Redis Cache and integrated Amazon S3 object storage.
- Integrated Elasticsearch with a dedicated Python AI service for intelligent search.
- Built 600+ unit, integration and in-memory integration tests using xUnit.
- Applied SOLID, Clean Code and CQRS with MediatR; led team workflows, continuous modernization and refactoring.

INDEPENDENT AI PRODUCTS - ONGOING

AgentWebTest | agentwebtest.com

Website intelligence and AI-agent readiness monitoring. Deterministic audits inspect public evidence; bounded Research Agent and Agent Task workflows interpret verified findings and validate URLs and quotations before reporting.

Stack: Next.js, React, TypeScript, Cloudflare Workers/OpenNext, Supabase PostgreSQL/Auth/RLS, Drizzle, Trigger.dev, OpenAI, Paddle, Resend and GitHub Actions.

Muturio | muturio.com

Personal-agent social discovery product connecting goals with resources, content and people. Intent embeddings and deterministic bilateral matching support relevant opportunities; content publication and introductions require explicit user decisions.

Stack: Expo Router, React Native, TypeScript, Cloudflare Pages/Workers, Hono, Supabase PostgreSQL/pgvector/Auth/RLS, OpenAI, Resend; Android TWA distribution.

EARLIER EXPERIENCE

Turkcell - Product Development Specialist / Consultant | Sep 2013 - Jan 2014

Developed a web-based budget planning platform with automated financial suggestions and inter-budget transfer workflows.

Obase Software - Product Technical Manager | May 2012 - Jan 2014

Built a document and label design platform, asynchronous Excel/CSV data migration tooling, and a real-time franchising simulation engine for Carrefour.

Plano Engineering - Software Developer | Aug 2010 - May 2012

Developed CSV-to-KML spatial visualization and high-performance multithreaded telecom log processing tools.

Graphtec Interactive - Web Application Developer | Sep 2009 - Jun 2010

Palm Desert, USA. Delivered frontend implementations for a company serving more than 300 websites.

Intronis Technologies - Scrum Developer | May 2009 - Sep 2009

Boston, USA. Helped migrate a desktop backup/disaster recovery product to the cloud. Collaborated across five countries and received direct Scrum coaching from Jeff Sutherland.

Pirelli Tyres - Software Developer | Aug 2007 - May 2009

Contributed to the Motorsport/Rally factory IT deployment with the German core team. Built industrial touch-panel maintenance and mobile barcode traceability applications across desktop, intranet and mobile systems.

Kocaeli Health Directorate - Software Developer | Dec 2006 - Aug 2007

Developed hardware maintenance/asset tracking and IT help desk systems. Received recognition and an award from the Ministry of Health for project impact.

TECHNICAL FOUNDATION

Engineering: C#, .NET Core, React, Vue, JavaScript, TypeScript, software architecture, SOLID, CQRS, MediatR, Entity Framework, Dapper and xUnit.

Cloud & data: Azure, Cloudflare, SQL Server, PostgreSQL, Supabase, Redis, Elasticsearch, Amazon S3, pgvector and event-driven messaging.

Delivery & leadership: Git, GitHub, Bitbucket, Jira, Confluence, Scrum, project management, team leadership and architectural problem-solving.

EDUCATION & PUBLISHED WORK

Sakarya University: Industrial Engineering. Additional software development training at BilgeAdam (400 hours) and Netron (300 hours); English training at Wall Street Institute.

Published developer products on CodeCanyon, including .NET business layers, a C# physics game engine, SQL developer utilities, MVC applications and Amazon S3 upload tooling. Selected links are available on the portfolio.

BEYOND SOFTWARE

Oil and stone painting, cooking, travel, basketball and bringing new ideas to life.