

# Can Dedeoglu

## AI Agents & Complex Solutions

Open to Remote

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### PROFESSIONAL SUMMARY

I architect and build complex AI-powered systems — from multi-agent orchestration pipelines and vision-capable RAG solutions to enterprise-scale automation frameworks that connect disparate platforms and make them work as one. With 18+ years at Microsoft and a hands-on development background across TypeScript, Python, and C#, I close the gap between AI research and production reality: I don't just design, I ship.

My focus is building what others consider impossible: agent-to-agent systems that self-coordinate, secure MCP architectures that comply with enterprise governance, and complex integrations — like a healthcare user-lifecycle automation serving 20,000+ users or a secure B2B file-sharing platform — that require both architectural breadth and developer depth. I lead from the technical front, translate ambiguity into elegant systems, and mentor teams along the way.

AI Agent Orchestration

Complex Solutions Design

Advanced RAG & Vision Models

Enterprise Automation

MCP & LLM Security



### CORE COMPETENCIES

#### AI Agents & Automation

- Multi-agent & agent-to-agent orchestration (MAF, Semantic Kernel, LangChain)
- Custom Copilot Studio & M365 Agents SDK integrations
- Advanced RAG pipelines with vision model support
- MCP server design secured with OAuth2 / Zero Trust
- Prompt engineering, LLM cost optimization, hallucination reduction
- Azure OpenAI, Azure AI Foundry, Open-source LLMs (Llama, Qwen, Kimi, MiniMax, etc.)

#### Complex Solutions & Architecture

- End-to-end complex system design: B2B SaaS, secure file platforms, insurance mgmt
- Enterprise IT automation — user lifecycle, identity federation, data pipelines
- Microservices, CI/CD, Docker
- Azure infrastructure & security architecture (Zero Trust)
- Cross-platform integration: Oracle Fusion, Active Directory, Microsoft 365
- TypeScript · Python · C# · PowerShell · React / Next.js



### COMPLEX SOLUTIONS BUILT

A selection of end-to-end systems designed and developed personally:

- Healthcare User Lifecycle Automation** — Architected and developed a fully automated identity orchestration system bridging Oracle Fusion HCM and Active Directory for a healthcare enterprise with 20,000+ users. Zero-touch provisioning, role-based access, and real-time sync across systems.
- Secure B2B File Sharing Platform** — Designed and built an enterprise-grade document exchange system with end-to-end encryption, granular access controls, audit trails, and compliance guardrails for regulated industries.
- B2B Insurance Management System** — Delivered a multi-party insurance lifecycle platform handling policy issuance, claims routing, and broker integrations across enterprise boundaries.
- AI Agent Automation Fleet** — Helped 100+ enterprise customers design and develop production AI automation agents covering IT ops, HR workflows, compliance monitoring, and knowledge retrieval — many using vision models and advanced RAG over proprietary data.
- Enterprise MCP Security Framework** — Designed the pattern for securing Model Context Protocol servers with OAuth2 Proxy in Microsoft's ecosystem, enabling safe AI tool discovery at scale across 40+ enterprise customers.
- RAG Hallucination Reduction at Scale** — Implemented AI Search + RAG architectures that reduced LLM hallucination rates ~40% for production workloads in critical industries.



## PROFESSIONAL EXPERIENCE

### Senior Cloud Solution Architect — AI, Copilot & Complex Solutions

Jul 2022 – Present

Microsoft · Dubai, UAE

- ▶ Drive AI-powered digital transformation across **40+ strategic enterprise customers** in the Middle East, owning end-to-end architecture and delivery of complex, custom solutions.
- ▶ Lead architect and developer for **15+ enterprise Copilot integrations** using Copilot Studio and M365 Agents SDK — spanning agent-to-agent systems, advanced RAG, and vision model pipelines.
- ▶ Designed and built the **enterprise MCP server security pattern** (OAuth2 Proxy) now applied across the Microsoft Middle East ecosystem for secure AI tool discovery.
- ▶ Developed production-grade AI agents in **TypeScript, Python, and C#** using Semantic Kernel, MAF, and Azure AI Foundry for complex multi-step reasoning and automation tasks.
- ▶ Conducted **LLM cost optimization assessments** achieving up to 30% token reduction via intelligent caching and model routing strategies.

### Technical Account Architect & Premier Field Engineer

2010 – 2022

Microsoft · UAE

Trusted technical advisor to premier enterprise customers; led complex hybrid identity migrations (100,000+ users), regional PowerShell automation frameworks for AD/Exchange, and high-stakes architectural risk assessments across banking, government, and healthcare.

### Senior Support Engineer — Exchange & Messaging

2008 – 2010

Microsoft · Istanbul, Türkiye

Mission-critical escalation management for Exchange Server enterprise deployments, resolving complex high-pressure incidents and building deep expertise in Microsoft messaging infrastructure.



## THOUGHT LEADERSHIP — CANDEDE.COM

I publish weekly in-depth architectural guides on AI agents, MCP security, enterprise integration, and complex solutions design. Topics covered include:

- ▶ Enterprise MCP OAuth2 identity patterns
- ▶ Advanced RAG with vision model integration
- ▶ LLM vulnerability & prompt injection defense
- ▶ TypeScript & API-first development for Copilot
- ▶ Agent-to-agent orchestration architectures
- ▶ Governance & control plane design for AI agents
- ▶ Microsoft AI SDK comparisons and selection guides
- ▶ Practical LLM cost optimization strategies



## CERTIFICATIONS · EDUCATION · LANGUAGES

### CERTIFICATIONS

- ▶ **AI-102:** Azure AI Engineer Associate
- ▶ **AZ-305:** Azure Solutions Architect Expert
- ▶ **SC-100:** Cybersecurity Architect Expert
- ▶ **MCT:** Microsoft Certified Trainer

### EDUCATION

**BSc Mechanical Engineering**  
Izmir Institute of Technology

### LANGUAGES

- ▶ English — Fluent
- ▶ Turkish — Native