# Aleksei Pikalov

Solution Architect

## About

I design systems that handle complexity — whether it's **900+ microservices**, multi-vendor ecosystems, or rapid business scaling from zero to millions of customers.

My experience spans telecom, finance, and logistics — from greenfield startups to **€30B enterprise programs**. I bring a strong foundation in domain-driven design, TOGAF, and telecom frameworks (eTOM, SID, TAM).

Currently at **Telefónica Germany**, I'm leading 5G network automation initiatives — designing end-to-end enterprise architecture for network slicing and pioneering AI agent integration for autonomous workflow execution.

When I'm not architecting systems, I'm exploring the intersection of AI and process automation, building side projects, and mentoring engineering teams.

## Experience

**2024 — PRESENT**

### Solution Architect · Telefónica Germany

Leading 5G network automation at Germany's third-largest mobile operator (45M subscribers). Designing end-to-end enterprise architecture for network slicing and service fulfillment.

- ▷ Architected 5G slicing platform integrating multiple network domains into unified fulfillment workflow
- ▷ Aligned multi-vendor delivery across Ericsson, Nokia, Blue Planet, and Siemens
- ▷ Pioneering AI agent integration for autonomous workflow execution

`5G` `Network Slicing` `AI Agents` `TOGAF`

**2022 — 2024**

### Domain Architect · Deutsche Telekom

Owned end-to-end architecture for Service Fulfillment domain within Deutsche Telekom's €30B fiber expansion — Germany's largest FTTH rollout reaching 10M+ households.

- ▷ Architected 900+ microservices ecosystem with zero-touch automation
- ▷ Built BPM practice on Camunda, achieving 99%+ process reliability
- ▷ Led architecture governance across 40+ distributed teams

`Microservices` `Camunda BPM` `Kubernetes` `Kafka`

**2015 — 2022**

### Solutions Architect · Deutsche Telekom

Built foundational architecture for Deutsche Telekom's FTTH program — microservices patterns, BPM practices, and governance frameworks later scaled to 40+ teams.

`Java` `REST APIs` `Docker` `CI/CD`

**2013 — 2015**

### Solution Architect · YOTA

Designed IT landscape from greenfield for one of the fastest-growing mobile operators — 0 to 1.5M customers in 12 months.

- ▷ Architected BSS/OSS platform supporting 10x growth
- ▷ Coordinated multi-vendor ecosystem as single architectural authority

`BSS/OSS` `CRM` `Telecom`

**2010 — 2013**

### Software Architect · Giesecke & Devrient

Software Architect & Team Lead for banknote processing systems — mission-critical software for central banks and currency printing facilities worldwide.

`Team Lead` `Scrum Master` `Java`

**2008 — 2010**

### Lead Software Engineer · Veeam Software

Lead Engineer on nworks Smart Plug-In for HP Operations Manager — enterprise VMware monitoring evolved into Veeam ONE.

`Java` `VMware` `Linux`

| 2006 — 2008 | **Software Architect · Alcatel-Lucent** |
| | Software Architect for Microsoft IPTV (Mediaroom) integration — enabling telecom operators to launch IPTV services. Delivered for Wind (Italy), SingTel (Singapore), Portugal Telecom. |

`IPTV` `Integration` `.NET`

| 2004 — 2006 | **Software Developer · Reksoft** |
| | Software Developer building components for Saxo Bank e-trading platform. First professional role — foundational experience in commercial software development. |

`ASP.NET` `C#` `SQL Server`

## Skills

### ARCHITECTURE

Solution Architecture, Enterprise Architecture, System Design, Distributed Systems, High Availability, Scalability, TOGAF

### CLOUD & INFRASTRUCTURE

AWS, GCP, Kubernetes, Docker, Terraform, Infrastructure as Code, CI/CD, DevOps

### DEVELOPMENT

Java, REST APIs, Event-Driven Architecture, Microservices, Kafka, GraphQL, API Design

### PROCESS & AUTOMATION

Camunda BPM, BPMN, Workflow Automation, AI Agents, LangChain, Process Orchestration

### LANGUAGES

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|---|---|
| English | C1 |
| German | B2 |
| Russian | Native |

### CERTIFICATIONS

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|---|---|
| TOGAF 9 | 2017 |
| GCP Cloud Architect | 2022 |
| AWS Solutions Architect | 2022 |

### EDUCATION

| | |
|---|---|
| Saint Petersburg State Marine Technical University | 1999 — 2005 |
| Engineer's Degree in Computer Science | |

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