

# Rafał Warzycha

Senior Solution & Enterprise Architect · AI & Industrial IoT

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Łódź, Poland · Remote (EU / US)

## PROFILE

Enterprise and Solution Architect with 15+ years across industrial IoT, cloud, and data platforms. Lead architect for a global IoT platform serving 15+ enterprise clients; author of the organization's AI usage and governance policy and AI-in-SDLC standards, setting risk, compliance, and evaluation criteria for AI/LLM tooling. Designs AI/ML-driven IIoT solutions — anomaly detection, predictive maintenance, energy optimization — for high-profile clients in Germany and the US, in collaboration with Google, Microsoft, and Nvidia.

## EXPERIENCE

### SoftServe

Feb 2022 – Present · Remote

*Enterprise Architect · Industrial IoT Solution Architect*

- Authored the organization's **AI usage and governance policy** and defined AI-in-SDLC standards — risk, compliance, and evaluation criteria for AI/LLM tooling adopted across the architecture practice.
- Built large-scale, high-ingress IIoT platforms running **AI/ML workloads** — anomaly detection, predictive maintenance, and energy optimization — for high-profile enterprise clients in Germany and the US.
- Enterprise/Lead Architect for a global IoT platform (Onelot), driving cloud and edge architecture across **15+ enterprise clients** and multiple Business Units.
- Architecture governance gatekeeper with sign-off authority; own SDLC tollgate reviews (G2–G7), author ADRs and gap analyses that raised cross-team architectural consistency.
- Architected a **€3.15M** BU transformation migrating PostgreSQL/TimescaleDB to SQL Server/Azure Data Explorer — cutting operational costs 30% across 15+ clients.
- Designed enterprise security architectures (TPM 2.0, PKI, Azure IoT Edge), improving security posture 40%; led OPC-UA security assessments that shaped **\$10M+** strategic decisions.
- Standardized the multi-tenant IoT platform across BUs on Azure-native architectures (IoT Hub, DPS, Data Explorer) supporting **millions of devices at 99.9% availability**, cutting design cycle time 20%.
- Collaborated with Microsoft, Google, and Nvidia on industrial gateway technologies; led zero-downtime transformations for 3+ high-profile clients via parallel operation and production cutover.

## AI & ARCHITECTURE

AI governance & AI-in-SDLC  
GenAI / LLM tooling evaluation  
ML for IIoT — anomaly detection, predictive maintenance  
Enterprise & data architecture  
Technology roadmapping  
Lambda / kappa architecture

## INDUSTRIAL IOT

OPC UA · PLC · SCADA  
Digital Twin  
Edge computing  
Azure IoT — Hub, DPS, ADX  
Cybersecurity threat modeling  
Presales & solution consulting

## CLOUD PARTNERS

Microsoft · Google · Nvidia  
· Litmus

## LANGUAGES

Polish — native  
English — professional working

EXPERIENCE — CONTINUED

**ABB** Jul 2018 – Feb 2022 · Łódź, Poland

*Technology Evangelist · Senior Principal Software Engineer*

- Designed and implemented enterprise IoT architectures across multiple Business Units, standardizing technology stacks and architectural patterns.
- Established architecture centers of excellence covering multi-tenant platform design, microservices, industrial IoT security and PKI, Azure cloud-native solutions, and edge computing strategies.
- Authored solution white papers and reference architectures; built proof-of-concept implementations and conducted architectural design reviews for BU-specific IoT deployments.
- Defined architectural standards, development methodologies, and technology evaluation frameworks; championed containerization, API-first design, and event-driven architectures.
- Mentored internal architecture teams and provided hands-on guidance for client engagements — technology selection, performance optimization, effort estimation, and training.

**Transition Technologies PSC** Aug 2017 – Jun 2018 · Łódź, Poland

*Expert Software Engineer · Tech Lead*

- Solution Architect and Tech Lead for strategic client PoCs and PoV demonstrations, driving new business development across diverse technology stacks.
- Conducted technical discovery sessions, requirements analysis, and solution design workshops with enterprise clients to validate architectural approaches.
- Delivered training programs on solution architecture and enterprise technology stacks; led competency development for architects and engineers.

EARLIER CAREER

**Fujitsu** — Senior Software Developer (Node.js, TypeScript, Electron) 2016 – 2017

**GFT Technologies** — Frontend Developer, UK banking platforms 2015 – 2016

**ABB** — Architect, Senior Software Developer / Designer 2012 – 2015

**SMT Software · Rossmann SDP · IISS · ABB · University of Łódź** — developer & designer roles 2008 – 2012

EDUCATION

**University of Łódź** — Master's Degree, Computer Science 2005 – 2011

CERTIFICATIONS

Microsoft Certified: Azure Solutions Architect Expert

Microsoft Certified: Azure IoT Developer Specialty

Microsoft Certified Trainer (2022 – 2024)

AZ-301 Azure Architect Design · AZ-300 Azure Architect Technologies

Perform Foundational Data, ML, and AI Tasks in Google Cloud

AgilePM® Practitioner & Foundation

PUBLICATIONS & SPEAKING

Just4Fun Podcast — co-creator

"Mikroserwisy na frontendzie"

Conference speaker and technology evangelist on the industrial IoT and AI landscape

ONLINE

[github.com/senssei](https://github.com/senssei)

[warzycha.pl](https://warzycha.pl) — blog

Pluralsight profile