

Kristof Riebbels

Senior Software Architect | Azure Developer Associate | Certified Scrum Master

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Professional Profile for Infrabel

Senior .NET Developer with 17+ years experience evolving from developer to architect, focusing on maintainable, secure software architectures. At Xebia, I've helped implement distributed backend architectures for clients like AXA Belgium, integrating complex systems (Auth0/Itsme/Backend services, EIP, APIM) while maintaining security standards through pentests and security reviews. My approach combines collaborative implementation with hands-on expertise - I work with solution architects to bring designs to life, often improving implementations through team collaboration and practical development experience.

Project Highlights

- Enterprise Authentication System (AXA Belgium):** Led implementation of Auth0 with Itsme integration using distributed backend architecture, Azure AppServices, APIM, and KeyVault. Learned and adapted from multiple security reviews and pentests to continuously improve security standards.
- OIDC Mocking Framework:** Developed an open-source tool for integration testing with id/access tokens (github.com/kriebb/MockOpenIdConnectIdpAspNetcore) that was adopted at AXA, demonstrating practical solutions over theoretical perfection
- ERP System Modernization:** Part of team that redesigned legacy system (DB2/COBOL/FORTRAN) to SQL Server/WCF/.NET using Domain-Driven Design with state machines for order processing, focusing on delivery rather than getting lost in architectural abstractions

Skills Matrix for Infrabel Requirements

Technology Category	Basic Knowledge	Experienced	Advanced
Architecture & Development	Enterprise Architect	Software Architecture (Implementation) Mermaid Diagrams	C#/.NET (17+ years) OOP Patterns IOC/DI*
Services & APIs	WebLogic Server	Azure App Service Kestrel	REST APIs SOAP/WCF/WSDL XML/XSD/XSL JSON IIS
Messaging & Integration	IBM MQ RabbitMQ Hazelcast	Azure Service Bus Redis	MSMQ
Data Access	DevArt dotConnect	Dapper	Entity Framework Core
Testing & Quality			TDD Unit Testing CI/CD**
DevOps & Infrastructure	OpenShift ProGet	Docker SSH TeamCity	Azure DevOps MSBuild Azure Artifacts** Git/GitHub
Scheduling & Workflows		Azure Functions Logic Apps Hangfire	
Project Management	JIRA	Certified Scrum Master	

* IOC/DI: Dependency Injection with Autofac, Unity, Microsoft DI
** CI/CD: Continuous Integration/Delivery with Azure DevOps, Azure Artifacts, TeamCity

Languages

- **Dutch:** Native (C2 level)
- **English:** Professional working proficiency (reading, writing, speaking)
- **French:** Basic proficiency (reading/listening only) - Below B2 level required for position

Certifications

- Microsoft Certified: Azure Developer Associate (AZ-204)
- Certified Scrum Master (Scrum.org)
- Bachelor in Informatics (HoGent, Ghent)

Value Proposition for Infrabel

As someone with extensive experience implementing and collaborating on architecture, I bring a combination of technical depth and team collaboration skills that would benefit Infrabel's railway management systems:

- **Collaborative Implementation:** I excel at working with architects and teams to translate architectural designs into effective implementations
- **Security-Focused:** My experience implementing authentication systems ensures security requirements are properly executed
- **Continuous Improvement:** I help identify ways to enhance existing architectures based on practical implementation experience
- **Team Approach:** I believe the way of working must work for a team to ultimately work for the company
- **Pragmatic Implementation:** I balance following architectural guidelines with practical delivery, ensuring systems not only meet design specifications but can be maintained long-term

Relevant Experience

Xebia XMS BE

04/2022 – Present

Software Architect

- Implement distributed backend architectures for enterprise clients, collaborating on architectural decisions and documenting with Mermaid diagrams
- Work with solution architects on Auth0/Itsme integration at AXA Belgium, translating architectural decisions into implementations using OOP principles and dependency injection
- Collaborate on security architecture implementation working with JWT tokens, Azure KeyVault, OAuth flows, and Active Directory
- Implement workflow scheduling solutions for distributed systems using Azure Functions, Logic Apps, and Service Bus topics/queues
- Configure CI/CD pipelines in Azure DevOps leveraging MSBuild, Azure Artifacts, and automated testing
- Implement development standards using IoC/DI containers, unit testing frameworks, and TDD methodologies
- Configure monitoring solutions with Application Insights following architectural guidelines
- Follow and improve upon architectural patterns for secure SSH access between environments

RecoMatics

04/2017 – 04/2022

Solution Engineer

- Made architectural contributions on the service-oriented architecture implementation for Vycunia (SaaS product)
- Implemented architectural patterns for data access and messaging using repository pattern, unit of work, and message queue abstractions
- Contributed to architectural documentation including coding standards, architectural principles, and system integration patterns
- Implemented microservices approach for new features following established service boundaries and communication contracts in XSD/JSON Schema
- Implemented secure token-based authentication flows between SharePoint, Dynamics 365, and custom services
- Helped develop workflow scheduling implementation using Azure Service Bus topics/subscriptions and Azure Functions
- Implemented XML/XSL transformation layers for data integration between legacy and modern systems
- Set up CI/CD pipelines implementing agreed branch policies, quality gates, and deployment strategies

Senior Software Developer with Architectural Contributions

- Contributed to architecture implementation for ERP system modernization, collaborating with team on translating business requirements into technical solutions
- Implemented N-tier architecture following established patterns for cross-layer communication using DTOs
- Applied **dependency injection patterns** in implementation, ensuring consistent application of IoC principles
- Implemented data access architecture using repository and unit of work patterns with NHibernate as the ORM solution
- Built service communication implementations using **WCF, contract-first design**, and message validation
- Implemented task scheduling architecture for automated business processes using state machines and MSMQ for reliable message delivery
- Applied transaction handling patterns across distributed system components
- Implemented testing architecture following defined unit, integration, and system testing strategies and frameworks
- Created JSON/XML data transformation implementations for integration with external systems and reporting solutions

References available upon request | Full CV at www.itkriebbels.be/resume