Profile



Hendrik W. Hansen
Tech Lead & hands-on Solution Architect
Senior software engineer (backend/platform)

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Summary

Hendrik is a **Tech Lead and hands-on Solution Architect** with more than 20 years of experience, primarily from complex, regulated and business-critical platforms (especially finance). He takes responsibility from business needs and non-functional requirements through to solution architecture, design and implementation, and he is equally at home in the strategic role (direction, standards, decisions) and the practical one (the difficult and complex parts of the code, incidents, performance and data).

He creates momentum by **translating between stakeholders and engineering**, establishing a shared technical direction and securing delivery through robust processes (CI/CD, test strategy, a review culture, operability/observability). Most recently he has worked in an enterprise setup with **Azure, AKS/Kubernetes, Terraform and event-driven architectures**, where traceability, security and stability are central.

Hendrik also has a clear profile in **AI-assisted/agentic development**: in his most recent projects he has used GitHub Copilot as a significant tool for implementing and reviewing whole features and for ad-hoc scripts, often in the role of architect/tech lead who sets the framework (design, tech stack, quality requirements) and uses AI to accelerate delivery without compromising on quality and traceability. In his own projects he has also worked with **Cursor AI** and **Claude Code** for about 1½ years, using **spec-based development**.

Among other things, Hendrik can contribute the following:

- **Tech Lead & delivery ownership:** Direction, standards, the "architecture runway", coaching/mentoring, code reviews, quality and shared engineering practice.
- **Solution architecture and design:** Architecture choices (microservices vs. modular monolith), integrations/interfaces, event flows, data modelling, trade-offs and decision papers.
- **Stakeholder management & communication:** Workshop facilitation, requirements breakdown, expectation management, and clear communication of risk, consequences and the basis for decisions.
- **Cloud & platform (Azure):** AKS/Kubernetes, Helm, Service Bus/Event Hubs, Key Vault, Application Insights/observability, operability and traceability.
- **DevOps & engineering excellence:** CI/CD, IaC (Terraform), secure and reproducible deployments, release and change discipline.
- **Hands-on backend:** .NET (Framework/Core/.NET 8/9), performance/concurrency, troubleshooting, robustness and refactoring.
- **Data & persistence:** SQL Server/Oracle, transactions/concurrency, query optimisation, EF/EF Core, Dapper/ADO.NET.

- **Test strategy:** TDD and BDD/Specification by Example (SpecFlow), including testable contracts and effective handling of databases in tests.
- **Compliance & data security:** GDPR processes, data handling and security-conscious design in an enterprise context.

Employment history

Period	Company
1 May 2004 – present	Self-employed software development consultant
1 January 2002 – 30 April 2004	ProActive Consulting A/S – Development consultant
1 February 2000 – 31 December 2001	Aston Group – Development consultant
1 June 1999 – 1 February 2000	Berlingske Online – Web programmer

Projects and clients

Banking Circle

Period: February 2025 – February 2026
Role: Senior backend engineer (hands-on) / solution architecture and design

Description: Senior backend developer in a cross-functional team, responsible for the design, development and operation of event-driven backend services on Azure. Worked with modern .NET-based microservices, a container platform (AKS) and cloud infrastructure in an enterprise setup with strict requirements for robustness, traceability and operational stability.

Responsible for preparing and driving architecture and design proposals for new backend services, including data modelling, persistence and event flows, in close collaboration with the team lead and the other developers.

Responsibilities/results:

- Design and implementation of a greenfield reconciliation service, including the data model, persistence strategy and event contracts that ensure consistency between databases, Azure Event Hubs and Azure Service Bus.
- Development of a new event subscriber service based on existing event streams, with a focus on idempotent processing, replay handling and scalability.
- Migration of backend services from Azure App Services to Azure Kubernetes Service (AKS), including containerisation, Helm-based deployment and adaptation of the runtime configuration.
- Improved observability and operational stability through the implementation of health endpoints, distributed tracing with correlation across requests and events, and targeted use of metrics to analyse performance and bottlenecks.
- Setup and maintenance of CI/CD pipelines for both application code and infrastructure as code, with a focus on reproducible builds and secure deployments.
- Active knowledge sharing and mentoring in the team, including code reviews (particularly AKS and Terraform) and internal presentations on architecture and design choices.
- AI-assisted development and review (GitHub Copilot) as an accelerator for implementing features, refactoring and quality assurance – with a focus on clear design constraints, testability and traceability.

Technologies: C#, .NET, .NET Core, Azure (Web App, Service Bus, Event Hubs, Traffic Manager, Application Gateway, Key Vault, Application Insights, SQL, Functions), Kubernetes, Helm, Terraform (Infrastructure as Code), YAML, Azure DevOps, Entity Framework Core

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Letpension

Period: August 2019 – January 2025
Role: Solution architect, system developer and designer, team lead

Description: Maintenance and further development of pension advisory systems and of systems for exchanging data with banks, a bank data centre and PFA. Advice on improving workflows around software development and ALM. Implementation and operation of GDPR processes.

Responsibilities/results:

- Led the work on development and maintainability: optimisations, analysis and removal of dead code, refactoring for better design and testability, refactoring of document code so it could be shared across two technology stacks, and a redesign of the batch area for greater stability and isolation and to support two technology stacks.
- Strategy for and implementation of automated tests: a reference implementation of BDD and Specification by Example with SpecFlow, with an isolated database instance for each test using DACPAC and SQL Server LocalDB.
- Led the work on architecture and design: strategy for microservices vs. modular monolith, interface design and SOLID principles.
- Led the work on databases and data access: resolved long response times and poor concurrency by moving to snapshot isolation and shorter, smaller transactions, analysed and fixed the biggest problems, and worked with batching, eager vs. lazy loading and more.
- Led the implementation of GDPR processes: deletion processes for a very large database with 500+ tables and 8 TB of data, and interaction with data owners about interfaces and process.
- Data intelligence: in-depth analyses of data across data sources and formats, data quality assurance and conversion of customer portfolios.
- Continuous improvement of the development process: management of database changes, the release process and DevOps (Azure DevOps).
- Cloud strategy: analysis and plan for migration to the cloud, and a proof of concept for applications using Azure Web App, SQL, Service Bus and Functions.
- Monitoring: implementation of monitoring that gives insight into how the system is used, bottlenecks and other problem areas.
- Handling of difficult incidents and troubleshooting: took part in the most serious and complex incidents, such as outages or degraded performance, analysing the cause, implementing a fix and identifying longer-term improvements.
- Stakeholder management: on many of the tasks above I dealt with stakeholders directly, and throughout the period I kept an eye on the business side as well as the technical one.
- AI-assisted development (GitHub Copilot) for implementing and reviewing features and for quick scripts for data extraction and manipulation, where I largely set the constraints for design, tech stack and quality.

Technologies: C#, .NET, .NET Core, Azure (Web App, Service Bus, SQL, Functions), Azure DevOps, Visual Studio Data Tools, SQL Server, XML, XSD, Entity Framework, Entity Framework Core, SpecFlow

Saxo Bank

Period: August 2017 – August 2019
Role: Solution architect, system developer and designer

Description: Further development and maintenance of OpenAPI, which underpins the latest trading platforms, SaxoTraderGO and SaxoTraderPRO, and the integration with third parties. The focus was on scaling, preparing for cloud enablement and automating the release process.

Responsibilities/results:

- Architecture and design of a new distributed cache to cope with a growing number of clients. The implementation is now in production.
- Requirements analysis and implementation of new features.
- Took part in the analysis of how the APIs could be migrated to Azure and .NET Core.

Technologies: C#, .NET, Redis, WCF, ProtoBuf, Git, TFS Build, PowerShell, ASP.NET Web API, Azure

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Danmarks Nationalbank

Period: August 2016 – August 2017
Role: Solution architect, system developer and designer, team lead

Description: Further development and maintenance of FIONA, a reporting system. The system handles reporting of economic and financial key figures for both Danmarks Nationalbank and the Danish Financial Supervisory Authority.

Responsibilities/results:

- Analysis, design and implementation of changes in connection with new regulatory requirements and new legislation. Two production releases for updated schemas from the EBA and EIOPA.
- Team lead for the outsourcing of operations and development. Specification of processes and knowledge transfer. The team was subsequently self-sufficient and supported the applications without problems.
- Support and troubleshooting of more complex issues, mainly related to databases and replication.

Technologies: C#, .NET 4.5, .NET 4.6, LINQ, SQL Server, Transact-SQL, Topshelf, WCF, SOAP, SOA, TFS, Continuous Integration, CS-Script, XBRL, XML, XSD, MSBuild, Confluence

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Bank Invest

Period: September 2015 – July 2016
Role: System developer and designer

Description: Maintenance, extension and new development of various core applications, including applications for maintaining instrument reference data, exchanging data for fee and commission calculation, and an application giving an overview of pricing and allocation keys across funds.

I also drove an initiative to document and test the functional requirements of existing applications using BDD/SpecFlow, so that the knowledge needed for future maintenance was secured.

Responsibilities/results:

- A presentation on how BDD/Specification by Example principles could improve the documentation of requirements while making the requirements directly testable.

- Analysis, documentation and test coverage of a service using these principles, as a kind of reference implementation. Knowledge of the service had been lost because of staff turnover. The solution was then handed over to other developers, who quickly gained enough knowledge to implement new requirements and could be confident that they had not broken existing functionality.
- Implementation of feature requests.

Technologies: C#, .NET 4.5, .NET 4.6, ASP.NET MVC 5, Bootstrap, KnockoutJS, Oracle, LINQ, SQL Server, SQLite, NHibernate, TDD/BDD, SpecFlow, Topshelf, WCF, SOAP, SOA, Scrum/agile, Subversion, TeamCity, Continuous Integration, log4net, StructureMap, Rhino Mocks, NSubstitute, Confluence, Jira

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Naturstyrelsen

Period: October 2015 – present
Role: Solution architect, system developer and designer

Description: Integration between an internal timber inventory system and an external timber measurement system, sScale from Dralle. The people measuring the timber are notified with coordinates as soon as a stack has been hauled out and is ready to be measured.

Responsibilities/results:

- Gathering requirements in collaboration with the client and other stakeholders.
- Producing the architecture and design.
- Implementation, testing and release of the application.

Technologies: C#, .NET 4.5, SQL Server, TDD/BDD, SpecFlow, Topshelf, Subversion, TeamCity, Continuous Integration, NLog, Unity, Rhino Mocks

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Self-employed consultant (various clients)

Period: 2004 – 2015
Role: Solution architect, system developer and designer, team lead

Description: As a self-employed software development consultant I have worked on a wide range of projects for large Danish companies and public organisations. The assignments have ranged from architecture and design of complex systems to hands-on development, team leadership and requirements analysis.

Projects:

- **Saxo Bank (2011-2015):** OpenAPI platform and Social Trading/Auto Trading systems. REST-based API framework, low-latency messaging, TDD/BDD. Team lead for an offshore team in India.
- **Miljøministeriet/Naturstyrelsen (2009-2013):** Self-service solution for riding permits (ASP.NET MVC, DIBS payment) and a livestock Q&A system.
- **Banedanmark (2011):** Reference implementation for bulk data load services (WCF, MTOM).
- **Danmarks Miljøportal (2010-2011):** Proof of concept with BizTalk Server, WCF and AD FS.
- **Domstolsstyrelsen (2010-2011):** System for handling enforcement cases at the bailiff's court (WPF, WCF, AD FS).
- **VP Securities (2010):** SSIS packages for loading company and shareholder data.
- **e-Boks (2010):** Public digital mailbox with interfaces to borger.dk and virk.dk (WCF, REST, OIOXML).
- **KL (2010):** System for ordering and keeping an inventory of IT equipment.
- **Innovisor (2009):** Customisation of the NodeXL network analysis tool (VSTO, WPF).
- **MAN Diesel (2008-2009):** Sales support system with customer overview, data warehouse and reporting. MOSS 2007 migration.

- **BRFkredit (2009):** Advisory application for customer advisers (WinForms, TDD).
- **Toyota Danmark (2006-2008):** Several systems: collection of workshop data via an ESB, measurement of dealer performance, and organisation and employee management with integration with Lotus Notes and European systems.
- **Vacasol (2007):** Holiday home rental system built from scratch. Architect and team lead for an offshore team in Vietnam.
- **NCC Construction (2004-2005):** Invoice handling system with BizTalk, an employee portal with HR integration, and customer/supplier management.
- **Bakmann A/S (2005):** Integration between a debt collection system and RKI/Debitorregistret.

Technologies: C#, .NET Framework, ASP.NET MVC/Web API, WCF, REST, WPF, WinForms, SQL Server, Oracle, BizTalk, Entity Framework, TDD/BDD, SpecFlow, Low-latency messaging, Active Directory, SSIS, Git, TFS, TeamCity, Continuous Integration

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ProActive Consulting A/S (various clients)

Period: 2002 – 2004
Role: Development consultant, system developer and designer

Description: As a consultant at ProActive Consulting A/S I worked on a number of projects for large Danish companies and public organisations. The main focus was web development, CMS solutions and integration.

Projects:

- **Miljøministeriet, Skov- og Naturstyrelsen (2004):** Adaptation and further development of a Q&A system for an online question-and-answer service, with CMS integration via web services
- **Kræftens Bekæmpelse (2002-2004):** Development of a website and intranet based on Microsoft CMS, including e-commerce and online payment
- **Ferring Pharmaceuticals (2003):** Web-based Q&A database for drug-related questions with FDA Part 11 approval and Active Directory integration
- **Københavns Kommune (2003):** Intranet with web services and fine-grained role-based security
- **Danmarks Radio (2002-2003):** Website based on Microsoft CMS, integration with the DMI data feed for DR Vejret (the DR weather service), and a custom administration tool
- **Carlsberg (2002):** Intranet and website with Microsoft CMS, with modules for an image library, permission management and log file analysis
- **Københavns Lufthavne (2002):** E-commerce solution based on Microsoft Commerce Server 2002 with DIBS payment integration

Technologies: C#, ASP.NET, ASP, VBScript, Visual Basic, .NET Framework, Microsoft CMS, Microsoft Commerce Server, SQL Server, Active Directory, Web services

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Aston Group (various clients)

Period: 2000 – 2001
Role: Development consultant, system developer and designer

Description: As a consultant at Aston Group I worked on web development projects.

Projects:

- **Lundbeck (2001):** Development of a software licence management system with a web-based interface

Technologies: ASP, Visual Basic, SQL Server 2000, C++

Education and certifications

Period/date	Education/Exam
December 2010	Certified Scrum Master, Jeff Sutherland, Xebia, Amsterdam
September 2008	Course "Essential BizTalk Server", DevelopMentor, London
September 2002	Microsoft Certified Solutions Developer (MCSD)
September 2002	Microsoft Certified Professional - "70-175 Designing and Implementing Distributed Applications with Microsoft Visual Basic 6.0"
June 2002	Microsoft Certified Professional - "70-176 Designing and Implementing Desktop Applications with Microsoft Visual Basic 6.0"
July 2001	Microsoft Certified Professional - "70-152 Designing and Implementing Web Solutions with Microsoft Visual InterDev 6.0"
June 2001	Microsoft Certified Professional - "70-100 Analyzing Requirements and Defining Solution Architectures"
1999-2000	AP Degree in Computer Science (datamatiker), Lyngby Uddannelses Center
Summer 1996	Upper secondary school leaving exam (studentereksamen)
Summer 1993	International HG