

Jimmy Borch

AI in Software Development · Agents behind controls

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Cases and code: jimmy.borch.family/en/ai Danish (native) · English (professional)

Available from 1 December 2026 employed, as a consultant or on a project, preferably 12 months or more.

I help development teams take the next step with AI, with the controls in place before the agents start. Behind it: 25 years as developer, architect and tech lead.

WHAT I BRING

- **Get developers started with AI in a measurable way:** 15 developers at EG who solved 1.25–2 times as many support tasks.
- **Set up the controls before AI gets responsibility:** automatic checks that catch when the AI cheats or makes mistakes.
- **Use AI on the hard problems:** a fault that for more than a year had made a service at Norlys restart again and again, fixed in 6 hours with AI.
- **Let AI work around the clock, safely:** at Canine Development AI fixed 88 bugs in one week, and the controls stopped 26 wrong fixes.
- **Keep data and rules in place:** sensitive data stays in-house, with an overview under GDPR and the EU AI Act.

EXPERIENCE · since 2010 full-time in client teams

Canine Development
2021 — today

2026	**Mjølner / Norlys** employee	Solution and software architect, tech lead
2024 — 2025	**EG** project employment	Senior developer
2022 — 2024	**Norlys** consultant	Tech lead
2021 — 2022	**Sustainor** consultant	Software architect
2021	**Nuuday** consultant	Tech lead and architect

Monosoft
2010 — 2020

2019 — 2020	**TV 2** consultant	Tech lead
2014 — 2019	**Danfoss** consultant	System architect, later senior developer
2010 — 2019	**HedeDanmark** supplier and consultant	Architect and lead developer
2010 — 2014	**Videndjurs** employee	Project manager and teacher

DanAsian
2009 — 2010

Development house in Thailand with seven employees. Sold when I moved home.

Before my first company
1996 — 2009

2007 — 2009	**Spectronic** employee	Project manager and tech lead
2001 — 2007	**Logodan and EG** employee	Developer, tech lead and project manager
1999 — 2001	**Aarhus Købmandsskole** education	Computer Scientist (datamatiker)
1996 — 1999	**Royal Danish Air Force** sergeant	Team leader and instructor

EXPERIENCE IN DETAIL

Solution and software architect, tech lead · Mjølner Informatics, for Norlys · employed until Accenture's acquisition

- Drew, together with the solution architect, the architecture for moving Norlys' 600,000 households to a new customer system, with about 10 teams delivering into it. I was responsible for security and performance.
- Old and new systems ran side by side, so customer self-service did not notice the move. Nearly done when Accenture bought Mjølner.
- Almost 100 architecture decisions written down, about 75% checked automatically by the code.
- Faster data retrieval: 5 years of data in 3–5 seconds, where 3 months used to take 5–15.
- About 60% less meeting time for the team in seven months.

Senior developer · EG Denmark · project employment, 2 years

- Modernised a 45-year-old system from Visual Basic to C#, one module at a time while it kept running, and saw it through. Test coverage from about 5% to about 85%.
- Got 15 developers using AI to help with support tasks: they solved 1.25–2 times as many, and old support cases were closed.
- Developed integrations to the national registers BBR and DAR, to e-Boks and to Digital Post.

Tech lead · Norlys · consultant · team of 5–7

- Built Norlys' new self-service for private customers and saw it through, against a customer system without usable documentation. Errors between the systems are caught automatically before they reach customers.
- Introduced test-driven development (TDD) across the team.
- Automated delivery, so each part can be released on its own.

Software architect · Sustainor · consultant

- Built the sustainability (ESG) reporting platform, so every figure can be traced back to its source.

Tech lead and architect · Nuuday · consultant

- Built a new support tool for hundreds of staff, with response times from minutes to milliseconds.
- Introduced a shared way of describing requirements (BDD), so business, UX and developers spoke the same language.

Tech lead · TV 2 · consultant

- Turned an unusable advertising platform into a product that answers in a second.
- Wrote the developer handbook for the team.

System architect, later senior developer · Danfoss · consultant

- Designed production tracking in hundreds of factories so it tolerates equipment failing.
- Rebuilt the database behind the ideas database, so searches went from minutes to milliseconds.

Developer, tech lead and project manager · Logodan and EG · employed

- Sent by EG as a consultant to Maersk: KMD could not solve a locking problem in the database the whole logistics operation ran on. I found the cause on day 1, moved the data to SQL Server, and everything was solved in a week where three months had been set aside.

COMPANIES FOUNDED AND LED · all three with employees

- **Canine Development ApS** · founder and CEO
  - Tools that independently measure software quality (Assure, Assert, Assay and CCA).
  - Nov 2026: screens in Assure from up to 5 seconds to under a tenth of a second, on more than 100 GB of data.
  - 5–10 hours a week alongside full-time work. AI agents do much of the work, under fixed controls.
- **Monosoft ApS** · founder and CEO · sold 2020
  - Logistics platforms used by almost all of Danish forestry. Ten employees, led by direction and trust.

REFERENCES

References from Norlys, Mjølner, EG, Danfoss, HedeDanmark and Sustainor available on request.

APPENDIX A: COMPETENCIES

Expert: used in production for many years, I make architecture choices with it and teach it. **Experienced:** used in production across several projects. **Competent:** used in production and productive after a short ramp-up.

Languages and .NET	EXPERT	C# · .NET Framework · .NET Core / .NET 5–11 · ASP.NET Core · Reflection · Roslyn (analyzers, e.g. enforcing ADRs) · Marten · Wolverine
	EXPERIENCED	Minimal APIs · Entity Framework · Dapper · MediatR · Polly · Serilog · FluentValidation · source generators · SignalR · MassTransit · TypeScript · Delphi
	COMPETENT	.NET Aspire · WPF · JavaScript · VB.NET · Access/VBA
Data	EXPERIENCED	SQL Server · PostgreSQL · SQLite
	COMPETENT	Azure SQL · Oracle · Redis · Lucene
Azure	EXPERIENCED	Functions · App Service · Blob Storage · Entra ID
	COMPETENT	Durable Functions · Service Bus · Key Vault · Application Insights · API Management · Bicep
Integration and APIs	EXPERT	REST · GraphQL
	EXPERIENCED	OpenAPI · backend-for-frontend (BFF) · RabbitMQ
	COMPETENT	Kafka · SAP EDI · Danish public registers and Digital Post (BBR, DAR, e-Boks) · feature flags
Security	EXPERIENCED	Keycloak · OIDC / OAuth 2 · token exchange · OWASP · GDPR · threat modelling
	COMPETENT	NIS2
Operations and DevOps	EXPERT	trunk-based development
	EXPERIENCED	Docker · GitHub Actions · Azure DevOps · Linux · CI/CD · OpenTelemetry
	COMPETENT	Kubernetes · Nginx
Front end and mobile	EXPERIENCED	Blazor · MudBlazor · HTML/CSS · Xamarin (native apps for Android and iPhone)
	COMPETENT	React · Angular · Vue · .NET MAUI
Testing and quality	EXPERT	TDD · BDD (Gherkin) · xUnit
	EXPERIENCED	SpecFlow · NUnit · Moq · Testcontainers · BenchmarkDotNet · mutation testing
	COMPETENT	Playwright
AI	EXPERT	local models 0.8–128B · hybrid systems (deterministic code + LLM) · agent harnesses and autonomy controls · AI-assisted TDD and review · MCP (using and building servers) · Claude Code
	EXPERIENCED	vLLM · Ollama · NVIDIA DGX Spark · quantisation (NVFP4, FP8) · System 1/System 2 architecture · OpenCode · GitHub Copilot · AI governance and the EU AI Act
	COMPETENT	larger local models (Qwen-3.8-flash-next) · full fine-tuning · speech-to-text and text-to-speech · image generation and editing · DeepSeek harness (DSH)
Architecture		Domain-Driven Design · event sourcing · CQRS · clean and vertical-slice architecture · hexagonal architecture · C4 · ADR · integration design · legacy modernisation · migration · requirements · microservices · distributed systems · EventStorming · risk assessment · technical due diligence
Methods and leadership		Technical direction · project management · Scrum · Kanban and Lean · SAFe (participant) · DevOps · product development and SaaS · building software organisations · mentoring · teaching
Industries		Energy and utilities · telecom · media · industry and manufacturing · logistics · forestry · housing administration · security · sustainability (ESG) · education

APPENDIX B: SKILLS AND PLACES

Each row is a skill, each column a place where I used it, newest first. ● means used there. The number on the right is the number of places.

Shaded column = own company

	Canine Development 2021–	Mjølner / Norlys 2026	EG 2024–25	Norlys 2022–24	Sustainor 2021–22	Nuuday 2021	TV 2 2019–20	Danfoss 2014–19	Videndjurs 2010–14	HedeDanmark 2010–19	Monosoft 2010–20	DanAsian 2009–10	Spectronic 2007–09	Logodan and EG 2001–07	Places
ARCHITECTURE															
Software architecture	●	●	●	●	●	●	●	●		●	●		●		11
Solution architecture	●	●			●					●	●				5
Migration		●	●	●						●				●	5
Event sourcing and event-driven systems	●	●			●	●							●		5
Messaging and asynchronous systems	●	●	●		●		●	●			●				7
Legacy and third-party integration		●	●	●	●	●	●	●		●	●		●	●	11
API design: BFF, GraphQL and OpenAPI	●	●		●	●	●	●			●	●				8
Risk assessment and technical decisions	●	●	●	●	●		●				●				7
From vision to specification	●				●	●			●		●	●	●		7
Legacy modernisation			●							●				●	3
AI															
Applied AI, local-first	●	●	●												3
AI agents in development	●	●	●												3
LLMs in the team's daily work	●	●	●												3
MCP and AI integrations	●	●													2
QUALITY															
Software assurance and measurement	●														1
Static analysis and Roslyn	●	●									●				3
TDD and BDD	●	●	●	●	●	●				●	●				8
CI/CD and safe releases	●	●	●	●	●	●					●				7
Performance and databases	●	●	●		●	●	●	●			●		●	●	10
Security and traceability	●	●	●		●		●	●					●		7
PLATFORM															
.NET and C#	●	●	●	●	●	●	●	●	●	●	●	●	●	●	14
Frontend	●		●	●	●	●	●	●	●	●	●	●	●	●	13
Operations and infrastructure	●	●		●	●		●				●				6
LEADERSHIP															
Technical leadership	●	●		●		●	●			●	●	●	●	●	10
Building companies and organisations	●										●	●			3
Agile, Lean and DevOps	●	●	●	●	●	●	●				●				8
Project management									●	●	●	●	●	●	6
Product development and SaaS	●				●						●				3
Teaching and communication	●	●	●				●		●						5
INDUSTRIES															
Energy and utilities		●		●										●	3
Housing and public registers			●												1
Telecom						●									1
Media							●								1
Industry and manufacturing								●							1
Logistics											●			●	2
Forestry and nature										●	●				2
Trades and services											●				1
IT and software	●											●			2
Security and intelligence													●		1
Sustainability (ESG)					●										1
Education									●						1