

IT & AI CONSULTANT · BACARDEN.DK

Karsten Lauridsen

Senior Software Engineer | AI & Agents · Azure · C#/.NET · Kubernetes · Distributed Systems

Building scalable, AI-powered solutions for tomorrow.

CONTACT

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34806608

CORE COMPETENCIES

AI & agents
Agentic AI · AI agents & orchestration · MCP servers · Azure OpenAI · Azure AI Foundry · Semantic Kernel · Claude · GitHub Copilot · RAG · Vector search · Embeddings · LLM integration · Prompt engineering · AI-assisted development · Responsible AI

Cloud & Azure
Azure · AKS · Argo CD · CI/CD · Git · Infrastructure

C# / .NET
C# · .NET · ASP.NET Core · REST APIs · WebSockets · Blazor · TypeScript

Kubernetes & distributed systems
Microservices · Event-driven architecture · RabbitMQ · Kafka · FIX · Integrations

PROFILE

Senior Software Engineer and IT consultant with 15+ years of experience designing, building and operating secure, scalable systems across financial services, digital assets, pharmaceutical and public-sector environments. Specialised in Azure, C#/.NET, Kubernetes and distributed, event-driven architectures for data-intensive and performance-critical workloads. Experienced across the full lifecycle – architecture, development, security, infrastructure, testing, transition and production – and an active user of AI and agents to accelerate high-quality engineering.

CRITICAL PROJECTS

- **NemLog-in:** National identity and authentication platform – federation, SAML, PKI and certificate handling at national scale.
- **Udlændinge- & Integrationsministeriet:** Federation service for secure single sign-on and identity integration.
- **Finance & crypto:** Market data, trading, custody, asset management, insurance, pension and blockchain.

Private sector: Novo Nordisk · ATP · Danske Bank

Public sector: Digitaliseringsstyrelsen · Kriminalforsorgen · Domstolsstyrelsen

PROFESSIONAL EXPERIENCE

Bitcoin Suisse AG Copenhagen, Denmark

Senior Software Developer | May 2021 – Present

- Designed and built a scalable Market Data Engine collecting and normalising data from 10–15 exchanges and institutional sources (tickers, trades, balances, airdrops, withdrawals).
- Built exchange and institutional adapters in a microservice architecture designed for high trade volumes, elastic scaling and fast onboarding of new sources.
- Implemented REST and WebSocket integrations with RabbitMQ messaging and Kafka-based reconciliation; delivered a STOXX blue-chip index market-data adapter.
- Developed Canton blockchain and custody integrations, including multi-key setup, HSM integration, server architecture and deployment.
- Run workloads on Azure, Kubernetes/AKS and Argo CD, monitored with Application Insights and Grafana.

Security

Authentication · Authorization · PKI · SSL/TLS · SAML · Federation services · IAM

Databases

Database design · SQL Server · Azure SQL · PostgreSQL · EF Core · LINQ · Stored procedures · Indexing · Query optimization · NoSQL

Monitoring

Application Insights · AppDynamics · Azure Monitor · Grafana · OpenTelemetry · Distributed tracing · Logging · Dashboards · Alerting

Quality & design

Unit & integration testing · Moq · Code reviews · SOLID · Dependency injection · KISS

LANGUAGES

Danish (native) · English · German

EDUCATION

BEng, ICT – Computer Software Engineering
University of Southern Denmark · 2007 – 2011

Business School (HHX)
Ribe Handelsskole · 2002 – 2005

- Use GitHub Copilot, MCP and AI agents for code reviews, refactoring, debugging, testing and analysis, with project-specific Markdown as context.
- Contribute to recruitment, code reviews and technical decisions with Product Owners, PMs and testers in teams of up to seven engineers.

NNIT Copenhagen, Denmark

Senior Software Developer | Sep 2012 – Apr 2021

- Developed and evolved NemLog-in, the national identity and authentication platform, including federation services.
- Coordinated a development team in the Philippines with Danish stakeholders; contributed to architecture and solution design.
- Built C#/.NET solutions with SQL Server, Entity Framework and SAML for identity federation, authentication and integrations.
- Technical SME during a major system transition: architecture, security, infrastructure, database migration, certificates, testing and customer communication.
- Delivered for Novo Nordisk, ATP, Miljøstyrelsen, Motorstyrelsen, Købstædernes Forsikring, Udlændinge- og Integrationsministeriet and Domstolsstyrelsen.

Freelance Computer Services Denmark / Remote

Freelance Developer | Jan 2001 – Aug 2012

- Custom software and web solutions for small companies and startups, including online sales and SQL Server-based applications.

Vestas Wind Systems Ringkøbing, Denmark

Software Developer – Internship | 2011 – 2012

- Developed and automated production systems using C#, SQL Server, web technologies and JavaScript.