Carsten Jørgensen

Senior Software Engineer

Badstuestræde 18D, 1th
1209 Copenhagen K

☎ +45 29712097

✉ carstenj@gmail.com
🌐 https://carsten-j.github.io/

Summary

I am a T-shaped backend developer with a solid knowledge of creating large-scale software systems for more than 25 years. My primary strengths and interests are the ability to bridge business and IT and use the knowledge to create business and customer value continuously using intelligent tech choices. Furthermore, I am well-versed in modern, agile software development principles and processes. I am comfortable with both devops and support operations and use that feedback to build more robust systems. My main experience is with mathematically based software in the areas of finance, optimization, and supply chain management. I have extensive domain knowledge in the areas of pension funds and life insurance (7 years), banking and capital markets (13 years), and Enterprise Resource Planning systems (5 years). I have also worked as a project manager, scrum master, and solution architect.

References available upon request.

Professionel Experience

Senior Software Architect and Consultant

BlueFragments
Oct 2021 –

As senior consultant I work with multiple customers to create and modernize their solutions and well as mentor junior developers.

- Modernization project upgrading a Silverlight client to Azure hosted Blazor WASM with minimal changes to existing WCF backend
- Mortgage loan recommendation engine build with ASP.NET Core and C#

Senior Software Developer

CBB Mobil
May 2020 – Sep 2021

Working in the Business Support Software unit, I have shared responsibility for maintaining a platform serving 650.000 mobile subscription customers

- Update online customer experience and payment service provider integration with strong customer authentication under PSD2 regulation

Senior Risk Manager

P+, Pension for Akademikere
June 2019 – April 2020

As Senior Software Developer in risk management I developed solutions written in Python used for

- Visualization and reporting of financial data
- Managing financial risk based on mathematical models for VaR and Solvency II
- Implementation of devops CI/CD pipelines based on BitBucket, Bamboo, and Docker

Chief Software Engineer

Danske Bank, C&I
Jan 2016 – May 2019

Working in Derivative Risk and IT, my responsibility was 360 degree development of solutions used in

- MiFID II Real-time reporting of regulatory requirements to external authorities
- Exposing Danske Bank's post-trade solutions as SaaS for external customers
- Managing financial risk based on mathematical models for VaR

Solution Architect

Danmarks Nationalbank
Nov 2014 – Dec 2015

As Solution Architect it was my responsibility to

- Ensure technical delivery of planned national credit register, with particular focus on architecture, IT security, and data volume
- Contribute to consistent and strategic development of the IT systems landscape

Software Developer and Architect

Edlund A/S
Dec 2008 – Oct 2014

As Software Developer and Architect it was my responsibility to develop solutions based on insurance mathematical principles and:

- Collaborate with domain experts in PFA regarding business requirements for PFA+, design of overall architecture, and development of solution for Unitlink
- Develop a new industry standard system for Velliv
- Manage customer relations for Skandia to coordinate and develop their client specific requirements

Software Developer Microsoft Mar 2003 – Nov 2008	During my time with Microsoft I worked on three major projects ■ responsibility for the front-end of a new "Sales and Operations Planning'" feature for the next version of Microsoft Dynamics AX ■ co-responsibility for AX core development for Microsoft Dynamics AX 4.0 ■ development of innovative ERP prototype project based on SOA architecture and a role-based configurable setup of business processes
Chief Financial Consultant SimCorp Oct 2000 – Feb 2003	Working in the financial research department responsible for calculations in SimCorp Dimension, it was my responsibility to ■ Refactor and rewrite the core calculation engine from C to C++ focusing primarily on optimization algorithms ■ Be responsible for software releases and configuration management
Senior Quantitative Analyst Nordea Markets Oct 1997 – Sep 2000	As Quantitative analyst, I participated in ■ Implementation of third party Treasury Management System ■ Developing functionality for Excel add-ins for the Nordea Analytics platform ■ Prepayment and Mortgage-Backed Security modeling
Software Developer SimCorp Aug 1995 – Sept 1997	As Software Developer, I contributed to a number of tasks ■ Annual release of financial Excel add-ins ■ Coordination of a cross-departmental developing task of a risk management module ■ Development of a financial mathematical library written in C

Education

Software Development 2002 – 2006	IT University of Copenhagen. Courses in database and distributed systems, algorithms and data structures, programming languages, and advanced OO programming
Visiting Member 1999	Courant Institute of Mathematical Sciences, New York University. Math Finance program by Marco Avellaneda. Recipient of Andersens Travel Grant for Mathematics
Erasmus+ Programme 1992 – 1993	University of Leeds, England. Applied statistics and non-commutative algebra
Mathematics 1988 – 1995	University of Copenhagen. Master in mathematics and bachelor in statistics. Focus areas: Numerical analysis and measure theory

Skills

Programming Languages and frameworks	Production experience with: Python, C#, .NET Core and Framework, ASP.NET Core, Blazor, WPF, WCF. Knowledge of C++, C, R, JavaScript, F#, and Scala
Data systems	SQL Server, MongoDB, Redis, RabbitMQ, and Kafka
DevOps tools	Docker, Ansible, ELK, InfluxDB, Grafana, Octopus, Git, Mercurial, GitHub

Continuing and Professional Education

2021	Reactive DDD Workshop with Vaughn Vernon
2021	Online Masterclass: Strategic Domain-Driven Design with Michael Plöd
2019	PyCon DE & PyData Berlin
2018	Advanced Akka.NET Topics with Aaron Stannard
2018	Fast Track to Chaos Engineering with Russ Miles
2017	Implementing Domain-Driven Design Workshop with Vaughn Vernon
2015	Advanced Distributed Systems Design with Udi Dahan
2014	Basic Life Insurance Mathematics (Liv1). University of Copenhagen

Voluntary work

Webmatematik June 2017 – May 2018 May 2020 –	Online assistance to students with math homework assignments and content writer for www.webmatematik.dk
Danish Refugee Council Jan 2014 – May 2014	Homework cafe in Vesterbro library, where I assisted primary school students with math assignments.

Personal info

I am 53 years old and married to Lene. We live in central Copenhagen and have a summer house near Arresø and Tisvilde Hegn in North Sjælland. In my spare time I enjoy running, gravel cycling, crossfit and yoga. I appreciate reading and using my hands when fixing bicycles.