

# Independent developer and software architect

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Full-stack / backend developer with focus on software architecture and with leader experience. Started my career with focus on web, and have since moved towards more complicated software systems within public administration, research and finance. I have clear strengths on the backend side of development, but I still have a lot of experience implementing a web interface in the form of a REST API and a React frontend.

In 2013 I started my own company ([Bitkompagniet](#) - Danish only), and have done a number of projects both as a supplier and an on-site consultant. My role has varied greatly - some projects I have done alone, in others I have been a team member or technical lead.

I am focused on process and project models, and I am a fan of test driven development, code reviews and a reasonable git flow.

I live in Copenhagen with my girlfriend Ida and our daughter Liva.

## Keywords

*Software architecture, C#, .NET, Javascript / Node.js, React, PHP, SQL, MongoDB, REST API, Git, Docker, Test Driven Development (TDD), managerial experience, communication, Scrum*

# Experience

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## Founder and developer, Bitkompagniet ApS

### 2013 - nu

Offers project- and consultantbased services in software development, web and databases, often with integration to other systems.

Examples:

- Core modules for molecular and protein modelling for [Novo Nordisk A/S](#). *C# / .NET Core / class library*
- Application for finding the best supplier for a given basket of items in a public framework agreement - for [Moderniseringsstyrelsen](#). *C# / .NET / MVC*
- Self service system for student loans on borger.dk. *C# / .NET / MVC*

[See the full list of projects.](#)

## Lead developer, MOC A/S

**2011 - 2013**

Team lead on a four man development team. Development of web applications and websites in TYPO3 CMS.

- Software architecture
- Quality assurance of team output
- Development in PHP, javascript, HTML/CSS, MySQL
- Module development and website implementation
- On-site consultant for a time

Projects include:

- DMI (Danish Meteorological Institute) website re-implementation.
- VUC websites for 11 institutions into a common platform.
- Consultant at TopDanmark, working on re-implementation of corporate website.

## Academic Officer, IT University of Copenhagen

**2009 - 2011**

Strategic role with focus on student well-being and progress.

- Analysis of student status and strategies for progress.
- Responsibility for the introduction activities for new students.
- Recurring managerial duties for the eight student counselors.

# Education

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**MSc.IT., Media Technology & games, IT University of Copenhagen**

## 2006 - 2009

Selected activities:

- Thesis about rehabilitation tools for aphasia patients inspired by games. Grade: 12
- Cooperation with DR (Danish Broadcasting Corporation) about creating news-related Flash games for their official website.
- Courses in artificial intelligence, development in 3D engines (Unity) and gamification.
- Two student jobs - as a study advisor on the university, and a developer at a pension fund.

## BA.Soc., Communication & Computer Science, Roskilde University

### 2002 - 2005

Udvalgte aktiviteter:

- Bachelors in virtual spaces as cooperation platform (CSCW).
- Courses in programming (Java), SQL-databases (SQL), Domain Driven Design and much more.
- Basic education in social studies with focus on quantitative analysis and economics.

# Projects

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## Core libraries for protein modelling, Novo Nordisk A/S

### Software architect / developer / on-site consultant

Re-implementation of existing core libraries in a more modern programming language, with a number of specification adjustments. Core libraries for runtime modelling of molecules and protein structures, with analysis and optimization. Worked solo on the core library, after which the implementation and the project was brought into a broader scope in a number of dependent projects. I continued as a project member until the end of all the projects.

*C#, .NET Core, XUnit*

## Launch, Public Ally

### Software architect / developer / co-owner

The idea behind Launch was to make public procurement easier for the public sector, by offering tools to manage and control the process and dialogue with potential suppliers, while also integrating with the Danish portal for procurements and EU's TED systems. I was a part of the group who developed the idea and the product from the bottom. The idea was good and

found a lot of support, but the group lacked experience in executing an ambitious product development process. We ran out of resources, and the project became my failed startup.

*C#, .NET Web API, React, JavaScript, HTML5 / Sass / CSS3, Foundation (CSS)*

## **Framework agreement order application, Moderniseringsstyrelsen**

### **Software architect / developer**

An application for the public sector, when employees need to buy materials or book hotels under a framework agreement. First the basket is filled, then the system finds the best supplier and sends the order.

*C#, .NET MVC, JavaScript, MSSQL, HTML5 / Sass / CSS3, Foundation (CSS), Git*

## **Aggregation of revenue data, Relevant Media**

### **Softwarearkitekt / Teknisk projektleder / Udvikler**

Tool for aggregating and visualizing revenue data for publishers, who present banner ads from a range of sources. Data is synchronized and massaged to fit a common data model, after which it can be effectively queried. Followed a microservice architecture.

*Microservices, Node.js, Express, MongoDB, ES6, React, Docker, Webpack, Git*

## **Self service platform for members, Danish Selvbetjening for medlemmer, The Association of Danish Physiotherapists**

### **Software architect / developer**

Self service system for registration and administration for existing members. Comprehensive data collection with complicated branching and member categories. Integration with internal business systems (Navision).

*C#, .NET MVC, .NET Web API, MSSQL, Navision, ES6, React, Redux, Git*

## **Website build tool, Swift**

### **Software architect in an advisory capacity**

Tool to make websites with no technical skills, offered for personal use and small businesses. Great frontend challenges with requirements for editing templates and stylesheets in the browser.

Værktøj til at lave hjemmesider uden teknisk viden, udbudt til private og små virksomheder. Microservice-arkitektur. Store frontend-udfordringer med krav om at kunne redigere og udskifte styles live.

*Microservices, Node.js, Express, MongoDB, ES6, React, Redux, Docker, Git*

## **Symbiosis database, Dansk SymbioseCenter**

### **Software architect / developer**

Production companies produce waste, which might be resources for some other companies. The goal of this project was to connect these companies in a way that helped both parties to save money while reducing their environmental footprint. Solved through a user friendly database, that can easily identify the closest waste-to-resource connection.

*C#, .NET MVC, MySQL, MongoDB, JavaScript, Git*

## **Student loan self service, Statens Administration**

### **Software architect / developer**

Development of the public self service system for administration of personal student loans on borger.dk. The user can see status of their debt and change the rate of repayment within a set of restrictions. Complicated synchronization with the database that contain all student loans.

*C#, .NET MVC, MSSQL, JavaScript, Git*

## **Publishing tool, Relevant Media**

### **Software architect / developer**

Development of a hub for publication of ad campaigns for advertisers, across a range of ad systems.

*Node.js, Express, MongoDB, ES6, React, Redux, Material Design, Webpack, Git*

## **Website, Danish Meteorological Institute (DMI)**

### **Software architect / lead developer / teacher**

New website based on TYPO3, and training of their development team for extending the functionality with TYPO3 extensions.

*PHP, TYPO3, MySQL, JavaScript, jQuery, Git*

## **Web-platform, VUC**

### **Software architect / lead developer**

Shared web platform for 11 VUC centers, and plugin development for educational planning and study administration.

*PHP, TYPO3, MySQL, JavaScript, jQuery, Git*

## **Accounting system for refusions, Statens Administration**

### **Software architect / developer**

Development of accounting system for handling public refusions within the ØSC area. Complicated data model and workflows, heavily regulated.

Udvikling af regnskabssystem til at styre offentlige refusioner i ØSC-området. Kompliceret datamodel og arbejdsgange, samt tunge beregninger og krav om præcision og sikkerhed.

*C#, .NET MVC, MSSQL, JavaScript, Git*

## **Webshop for children's clothes, Ticket to Heaven**

### **Developer**

Maintenance and development of small new features in a TYPO3 based webshop.

*PHP, TYPO3, MySQL, JavaScript, Ember.js, jQuery, Git*

## **TopDanmark**

### **Developer / on-site consultant**

Development of components for the self-service system on TopDanmarks website, in connection to a re-launch of the main website.

*PHP, TYPO3, MySQL, JavaScript, jQuery, Git*

## **Website, Statens Museum for Kunst**

### **Developer**

Development of components for events and exhibitions for the website.

*PHP, TYPO3, MySQL, JavaScript, jQuery, Git*

## **Website, Administrationshuset**

### **Lead developer**

Development of components for administration of housing cooperatives (Danish: "andelsboligforeninger").

*PHP, TYPO3, MySQL, JavaScript, jQuery, SVN*

# Volunteer work

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Pro-bono projects.

- Design and implementation of website for the author [Line-Maria Lång](#).
- Design and implementation of website for [Det Lille Risteri](#) (English: "The small roastery").
- Modules for review and commenting on [Pantbørsens](#) website.
- Green footsteps, Roskilde Festival - documentation system for reviewing "green achievements", where festival guests wanting to live in the green camp could be accepted.
- Implementation of website for [lværksætterhjælpen](#).
- Implementation of website for [Transmogriffen](#).