CV

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Introduction

I love the craft of software development. My experience includes designing everything from individual features to complete platforms in domains from waste management to payment processing.

I have a strong background in Java, with extensive recent experience in writing Python- and Rust applications that run on AWS services. I have been involved in all steps of the development process from architectural design, to development, to automated testing, deployment and monitoring of applications.

On a personal level, I'm open to new experiences and I get along well with people. My Computer Science degree, and diverse background, help me get up and running quickly in new projects, and eventually take the lead. I also enjoy learning from others and teaching them what I know.

Education

1995-2006: M.Sc. In Computer Science from DIKU, Copenhagen University

Certification

2018: AWS Certified Solutions Architect - Associate

Work- and project experience

Adamatics / Novo Nordisk (January 2022 – September 2025)

External Consultant

Role: DevOps & Software Developer

Description:
During my time at Novo Nordisk working for Adamatics, I worked on multiple teams in many different areas, but all under the Research & Early Design umbrella. During my time I worked with technologies that were both well-known to me, and ones that I had to learn completely from scratch. Specific team experience is described below, but in general my work included providing AWS and DevOps expertise to teams of scientists and data science engineers.

Experience: Amazon Web Services (AWS), CDK, Python, Docker, Typescript, Git

ScienceFlow

Role: DevOps & Software Developer

Description:

In the ScienceFlow team I worked on a number of smaller libraries and systems. The main thrust, however, was the development of a dataset storage- and prediction-platforms in Rust.

The dataset storage plugged seamlessly into an existing Python library and allowed scientists to share datasets with fine-grained access control.

The prediction platform helped scale a single instance 3rd party application that used an AI model to predict outcomes. The scaled system was tested in parallel with hundreds of thousands instances, and aggregated the prediction results to S3 buckets. The system used Docker to wrap the original application, and a Rust backend to coordinate the work across an autoscaling AWS Batch cluster.

Experience: Rust, AWS Batch, ECS, S3

CoApps

Role: DevOps & Software Developer

Description:
In CoApps, I developed a self-service application deployment platform where scientists could run their applications in a Kubernetes cluster and manage deployment via Git. I set up the K8s cluster from scratch using CDK and AWS Blueprints with SSO backed by Entra AD, and provided documentation and example apps as well as helping early adopters install and debug their applications

Experience: Kubernetes, OAuth2

OpenPKai/NNODA

Role: DevOps & Software Developer

Description:
I wrote CDK code to deploy and manage a platform based initially on AWS Glue and Athena that ingested data from various internal databases and made them available in AWS Athena. I wrote most of the IaC and integration test setup, and configured the monitoring with Grafana. Later, I migrated the Glue Workflow based job-orchestration to run in Airflow. I also wrote the backend for a web-application that used the data in Athena.

Experience: Glue, Airflow, Athena

Artifactory

Role: DevOps & Software Developer

Description:
During my time in SciApps I set up an internal Artifactory server that was used to share packages internally between R&D teams. I managed the server running in EC2 with load balancing and monitoring, and wrote end-user documentation for package publication. The server ran from 2022 to 2025 when it was replaced by another Artifactory server managed by the IT department.

Before this, I helped migrate all the existing packages and users to the new system.

Experience: Artifactory, EC2

UFST ICE Project (April 2020 – December 2021)

External Consultant

Role: DevOps

Description:
I was instrumental in the design and rewrite of the Terraform platform from the "old stack" to the "new stack", both in formulating the performance requirements, teaching new developers the architecture, and developing most of the core AWS modules.

I inherited the automated deployment process, and finished the scripting and Jenkins pipeline setup needed to automate what had previously been a manual process for years. As part of this work, I also wrote the proposal and reference implementation for the integration testing framework used by the teams to validate the success of each deployment.

I also wrote the proposal for an overarching strategy of code deployment based on a traditional tag-based approach, as opposed to the existing codebase-per-environment approach. This was later implemented by the team after I left.

As part of my work in general, I wrote extensive documentation that was used by all the other DevOps engineers, both for testing and accessing AWS resources with ADFS credentials. The tools and workflows I introduced replaced the existing solution of using a bastion server in the environments to work from, with a workflow based on the developers' own machines and temporary credentials.

Experience: Terraform, Amazon Elastic Container Service (ECS), AWS API Gateway, Docker, Bash, Jenkins

Novozymes (October 2019 – March 2020)

External Consultant

Role: DevOps

Description:
I helped rewrite the first iteration of Novozyme's AWS analytics platform. The work involved analyzing the existing work, and streamlining or reimplementing the platform in a more maintainable and extensible form.

As part of the job, I rewrote their Terraform platform almost completely and implemented a system for one-click (re)deployment of environments, and repeatable integration testing of central modules.

I introduced new tools and workflows for working with Terraform and AWS using scripting to facilitate automation.

Experience: Terraform, Amazon Elastic Container Service (ECS), Docker, Ansible, Bash, Node.js, Jenkins

JP/Politiken (March 2019 – September 2019)

External Consultant

Role: Architect, Developer

Description:
I designed and implemented a microservice platform based on Amazon Elastic Container Service (ECS), and helped migrate the customer's existing code from Java OSGi to Spring Boot. The entire platform was provided with Platform as Code using Terraform. A secondary responsibility was to help the customer's IT department find a way to work together with the new platform across teams. I also provided example applications for monitoring and management written in Spring Boot and React JS.

Experience: Terraform, Docker, Amazon Elastic Container Service (ECS), Spring Boot, Node.js, React JS, TeamCity, Octopus

KeyCore / IBA (April 2018 – December 2018)

External Consultant

Role: Architect , Developer

Description:
Along with one other architect from KeyCore, I helped migrate the IBA's insurance sales platform from a single server hosted solution to a cloud native AWS application based on a mix of microservices and traditional web applications. My primary responsibility was migrating services to Spring Boot microservices in Docker, and to build CI pipelines for test and deployment. I also wrote integrations that allowed developers to monitor and control deployment via Slack.

Experience: TypeScript, Docker, Amazon Elastic Compute Cloud (EC2), Slack, Node.js, Amazon Elastic Container Service (ECS), Amazon CloudFormation, AWS Lambda, CodePipeline, CodeBuild, CodeDeploy

External Consultant

Role: SCM Consultant

Description:
As part of the cloud migration effort, I travelled to Rumania on several occasions, to migrate the customer's Mercurial repositories to GitHub, and train the developers in the daily use of Git and the GitFlow process.

Experience: GitHub, Mercurial, GitFlow

Netcompany / KOMBIT (January 2018 – March 2018)

External Consultant

Role: Developer

Description:
I worked for KOMBIT on FLIS, a government platform for exchanging performance data between municipal leaders. My work dealt mostly with testing and optimizing in-house tools.

Experience: Microsoft SQL Server Integration Services (SSIS), C#, Microsoft SQL Server

.NET department manager, Theilgaard Mortensen (May 2015 – December 2017)

.NET department manager

Role: Manager

Description:
I managed the .NET department, consisting of 3 consultants. My team delivered both ad hoc development at hourly rates and an in house developed electronic patient journal system used by the Danish Government.

As manager, my main focus was on improving the quality of deliveries on our EPJ product. I introduced code reviews and mandatory unit testing, and worked with support to standardize integration testing prior to releases.

Experience: Code review, Continuous Integration, Integration Testing, Unit Testing

Self-service modules for EPJ system

Role: Systems Developer, Web Developer

Description:
I was the lead developer on the implementation of self-service modules for the EPJ system that integrated with NemLog-In.

Experience: Angular2, ASP.NET MVC, Bootstrap, C#, HTML5, Web services, OIOSAML.NET, SAML, SSO, NemLog-In

Electronic patient journal system (EPJ)

Role: Architect, Team lead

Description:
I served as team lead and architect for the team that maintained TM's EPJ systems for child dental care, post-natal healthcare, and the Copenhagen dentist school. The child dental care system alone had more than half of the Danish municipalities with every child in them as customers. The back-end was Java based and the front-end was a C# WinForms application.

Experience: C#, EPJ, GEPJ, Java, VB.NET, Web services, WinForms

Waste management portal

Role: Consultant, Systems Developer, Team Lead, Web Developer

Description:
I maintained waste management self-service portals for ISS and Novo Nordisk.

Experience: ASP.NET MVC, C#, HTML5, jQuery, MS Reporting Services, Web services

Quality control

Role: Architect, DevOps

Description:
I developed and introduced Docker/DropWizard middleware to ensure that only tested code would make it into the main product branches, and to link auto generated change logs with the issue tracking system.

Experience: CruiseControl.NET, Java, Jenkins, Docker, Drop Wizard, Target Process, Web services

Architectural review

Role: Architect, Systems Developer

Description:
I served as the main architect for most department projects, and I performed overhauls of the Java based back-end server's architecture, to replace homemade components with stock components from the Open Source community. The process helped reduce maintenance costs.

Experience: Bitronix JTA, Guava, Java, JAX-RS, Lombok, Web services

Log and server monitoring

Role: Architect, DevOps

Description:
I prototyped log- and server monitoring of our client solutions.

Experience: Docker, GrayLog, Nagios, NSClient, NXLog

Systems developer, Endomondo (January 2015 – April 2015)

Endomondo application back-end

Role: Systems Developer, Web Developer

Description:
I worked on the back-end used by the fitness app and the website during the transition from an Apache Wicket application to an OSGi/AngularJS solution deployed in AWS.

Experience: AngularJS, Apache Wicket, AWS, Java, OSGi, Web servicesUnit testing

Role: Systems Developer

Description:
I rewrote the older parts of the backend to support unit testing.

Experience: JUnit, Mockito

Architect, DIBS (July 2010 – December 2014)

New Payment Gateway

Role: Architect, Team Lead, Systems Developer

Description:
I designed and prototyped a platform built around horizontally scalable servers deployed in Amazon's AWS cloud. The system used event sourcing and the CQRS pattern to share the load of processing payments, while simultaneously feeding a business back-end.

The final system was based on Axon CQRS and Redis, but during development both ActiveMQ and Riak where in play.

Experience: Apache ActiveMQ, Axon CQRS, AWS, MySQL, Redis, Riak, Spring, Web services

Server throttling

Role: Architect

Description:
I designed, and helped implement, a configurable rate limiting proxy to during a hectic Christmas when the servers were buckling under the load. The system was conceived, developed and deployed over 48 hours, and was still in use 2 years later when I left.

Experience: Node.js, Redis, Web services

Systems developer, Eniro (March 2008 – June 2010)

Support tool

Role: Systems developer

Description:
I took responsibility for the in-house front-end used by the customer service department, streamlined the build process, and rewrote the application to use dynamic model binding.

Experience: Java, Java Webstart, Swing, Web services

Data integration
Role: Systems developer

Description:
I worked on the core data exchange collecting data from multiple sources and exporting them to the head office, providing data for both the websites and the print division.

Experience: Batch Processing, Java, J2EE 1.5, Web services

B2B master data portals
Role: Systems developer, Web developer

Description:
I worked on several portal sites for B2B projects for the Swedish head office.

Experience: Java, jQuery, Freemarker, OAuth 1.0, Spring, Web services

Consultant, Theilgaard Mortensen (March 2006 – February 2008)

Lotus Notes integration
Role: Systems developer, Web developer

Description:
I designed and developed an integration layer that allowed data from an external data warehouse for Business Denmark.

Experience: J2EE 1.5, Web services

Bogportalen and Gyldendals Bogklubber
Role: Systems developer, Web developer

Description:
I developed e-commerce sites for a number of major Danish companies including Gyldendal.

Experience: J2EE 1.4, WebSphere Commerce, Web services

Work experience

Skill level description:

1. I've worked with this, but I'm rusty
2. I can maintain existing solutions
3. I can work confidently from scratch or existing code
4. I can teach others
5. The subject is a core competence

Technolgy	Last Used	Total Years	Skill
Airflow	2025	2	3
Ajax	2019	9	3
Amazon Web Services (AWS)	2025	15	4
Ansible	2020	1	1
Artifactory	2025	4	5
ASP.NET MVC	2017	3	1
Bash scripting	2025	13	5
Bootstrap JS	2019	9	1
C# / .NET	2018	3	3
CDK	2025	5	5
Continuous Integration	2021	12	4
CruiseControl.NET (CI)	2017	3	1
Django	2025	1	3
Docker	2025	10	5
EPJ (Elektronic Patient Journal)	2018	3	2
Git	2025	14	5
HTML5	2019	9	4
Integration testing	2025	16	4
J2EE 1.5	2010	5	1
Java (all versions)	2019	14	4
Java Swing	2010	3	1
JavaScript / JS	2021	14	3
JAX-RS	2019	5	2
JAXB	2019	9	2
Jenkins/Hudson	2021	11	4
jQuery	2015	5	2
JSON	2025	15	5
Kubernetes	2024	1	3
LINQ	2018	3	2
Linux	2025	20	4
Microservices	2021	7	5
Microsoft IIS	2017	3	1
Microsoft SQL Server	2019	4	3
MySQL	2015	8	3
Node.js	2021	7	3
Postgres	2021	1	2

Technolgy	Last Used	Total Years	Skill
Python	2025	4	5
React JS	2024	2	3
Redis (database)	2014	5	3
REST	2021	11	5
Rust	2023	2	3
SAML / NemLogin / Single sign-on (SSO)	2021	5	2
SOAP / WSDL	2017	12	2
Spring / Spring Boot	2019	9	3
SQL / TSQL	2021	16	5
Swagger / OpenAPI	2025	6	4
TeamCity (CI)	2019	1	3
Terraform	2021	3	5
Terragrunt	2021	3	4
Tomcat	2018	11	4
TypeScript	2025	5	5
Unit Test	2025	13	4
Web	2021	16	5
Web Services	2021	14	5
WSDL	2017	12	3