

Daniel Høyer Bjørnskov

Software Engineer & Software Architect.

Daniel.h.bjornskov@gmail.com | www.INTEGU.net | www.linkedin.com/in/daniel-h%C3%B8yer-jacobsen

Personal Profil

My name is Daniel Høyer Bjørnskov and I'm an outgoing software engineer with experience in both complex software development and design as well as establishing and developing software teams and processes.

I have experience with both frontend, backend and fullstack tasks and has previously also touched on the DevOps role. For the past four years, I have primarily dealt with the role of Software Architect (solution architect), but also Agile/Scrum team management and a number of development tasks.

In the section below, examples of my most recent tasks within respective categories can be seen.

- **Frontend:** Development of SPA (Single Page Application) website with Vue based DevExtreme. Development of "Vanilla JS" and Typescript Electron desktop application. Creating CI/CD pipeline to handle Puppeteer snapshot tests with 0% fault tolerance.
- **Backend:** Concurrency/multithread-handling or database and external protocol integration. Development of common Maven repositories via Artifactory/Jfrog (similar tasks solved for internal NPM packages).
- **Fullstack:** API design (JSON schema standard) and associated implementation for multiple microservices. Knowledge sharing of architecture and technical choices to a larger development team with tools like Confluence, Draw.io and Arc42.
- **DevOps:** Produced Ansible deployment on CI/CD pipeline (TeamCity) in collaboration with Docker containers. The deployment handled the transfer and installation of RPM files, Docker containers and configuration files on multiple devices and across multiple networks.

I find myself well at the crossroads between the development role and tasks of a more architectural nature - and I like to be at the head of a team.

In the role of team-lead, I have implemented quality-enhancing processes such as the Robot Framework across several units and networks. In addition, I have also led new higher standards for code quality via static code analysis tools. Eg. CodeScene, Pitest, Robot Framework, etc.












I have a high level of initiative, ambition and personal expectation, all of which are driving forces for my work. I assume a great deal of responsibility for my and/or the team's tasks being solved to the best of their ability, so that the product reaches the desired goal.

Primary competencies

Frontend

 JavaScript  TypeScript  Android  Vue  Angular  HTML  CSS  Gridstack  Electron  DevExtreme  NPM  Puppeteer  Selenium  SPA  Jest

Backend

 Java  Python  SQL  Firebase  MongoDB  Redis  Karaf  Maven  JUnit/Mockito  Concurrency/Multithreading  Pitest

Fullstack

 MQTT  JSON Schema  Microservice  API design

DevOps

 Git  Docker  Artifactory/Jfrog  SSH  Ansible  TeamCity  Linux  RPM  Robot Framework  Bash/SH scripting  VMWare  CI/CD

Tools

 Draw.io  Confluence  Arc42  ED109  Jira  Bitbucket  GitHub  IntelliJ  PyCharm  CodeScene  Jekyll Markdown  Wireshark

Career & projects 2019 - 2024 Saab Danmark, Software Architect

As a software architect at Saab, my primary task was to design and develop the advanced TactiCall VCS product for the civil and military aviation industry.

During my time as software architect on the project, both the product and the team have experienced rapid development. The product has gone from consisting of a few lines of code to today being a full commercial system. At the same time, the team has grown from just three developers to today consisting of 10 developers and 2 testers.

In addition to design and development, my role also included facilitating the development process. It was therefore also his responsibility to coordinate deadlines for the development team, stand-up/retrospective/kickoff facilitation (SCRUM master tasks) as well as long-term development planning and strategy.

The involvement in the VCS project has given me extensive knowledge and experience with microservice architectures, multiple programming languages and technologies, as well as hands-on experience in driving high-quality software deliveries.

In the role of software architect, my specific development tasks have varied, from Frontend (e.g. SPA web server, Electron application or internal NPM packages) and Backend development (e.g. Concurrency handling or database and external protocol integration) , for DevOps tasks (e.g. Ansible deployments, Docker debugging and Karaf bundle container handling).

Skills utilized



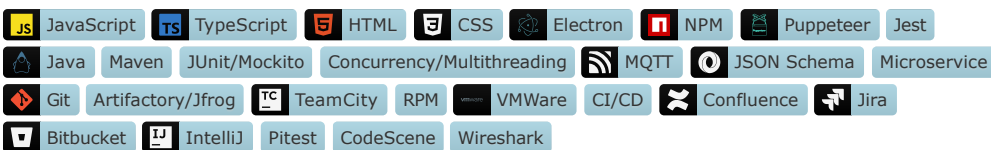
2018 - 2029 Saab Danmark, Software Engineer

In the first year at Saab, I worked as a Software Engineer on the VCS project. Due to good development in the role and training through the Technological Institute and Danish IT (System Architect - Practitioner), I was promoted to the role of Software Architect after one year.

In the role of Software Engineer, I was responsible for the production of an Electron desktop application based on a "Vanilla JS" and TypeScript project, development of several Java microservices and integration between applications with the MQTT protocol.

Given that the VCS product handles both radio and telephony communication (SIP and RTP/RTCP protocol), I have also built up good experience in debugging with tools such as Wireshark.

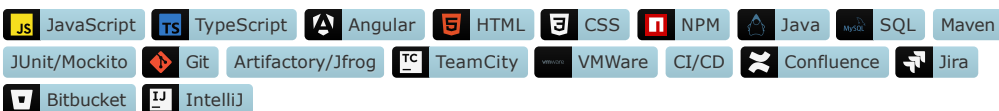
Skills utilized



2018 - 2019 INTEGU, Freelance Software Consultant

Over a period of half a year, I traveled to India with his wife in connection with her work. Given the successful working relationship with the former employer Capgemini, the position was converted to a freelance position. This allowed me to continue his work remotely from India throughout the six months.

Skills utilized



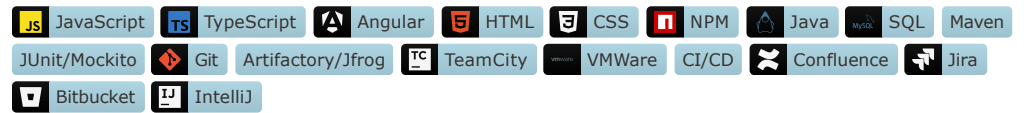
2018 - 2019 Capgemini, Software Engineer - Consultant

At Capgemini, I worked as a software engineer on a major booking system for the healthcare system. I quickly grew in his role (eg Java 8 OCA certification) and worked with a variety of development tools and services – all within an established SCRUM project.

During this employment, I gained an in-depth insight into what it means to work with legacy

code, including the caveats and precautions that should be taken into account in order to work safely and efficiently in a 15+ year old codebase.

Skills utilized














Skill table







Roles

Roles	Skill level	Years experience	Last utilized
Software Architect	●●●●●	4	2024
Software Engineer	●●●●●	6	2024
SCRUM-master	●●●●○	5	2024



Frontend Technologies

Frontend Technologies	Skill level	Years experience	Last utilized
 JavaScript	●●●●●	6	2024
 TypeScript	●●●●●	6	2024
 Android	●●●●○	3	2020
 Vue	●●●●○	2	2024
 Angular	●●●○○	2	2020
 HTML	●●●●●	6	2024
 Electron	●●●●●	5	2024
 NPM	●●●●●	6	2024
 Puppeteer	●●●●○	5	2024
 CSS	●●●●●	5	2024
 Selenium	●●●●○	2	2024
DevExtreme	●●●●○	2	2024
Gridstack	●●●●○	3	2024
SPA	●●●○○	2	2024
Jest	●●●●●	5	2024







Backend Technologies

Backend Technologies	Skill level	Years experience	Last utilized
 Java	●●●●●	6	2024
 Python	●●●●○	3	2024
 SQL	●●●●○	2	2019
 Firebase	●●●○○	1	2020
 MongoDB	●●●●○	2	2024
 Redis	●●●○○	1	2023
Karaf	●●●○○	2	2024
Maven	●●●●○	6	2024
JUnit/Mockito	●●●●●	6	2024
Concurrency/Multithreading	●●●●●	5	2024
Pitest	●●●●●	5	2024

Fullstack Technologies

Fullstack Technologies	Skill level	Years experience	Last utilized
 MQTT	●●●●●	5	2024
 JSON Schema	●●●●●	5	2024
Microservice	●●●●●	5	2024
API design	●●●●●	5	2024

DevOps Technologies

DevOps Technologies	Skill level	Years experience	Last utilized
 Git	●●●●●	6	2024
 Docker	●●●●●	5	2024
 Ansible	●●●●○	3	2024
 TeamCity	●●●●●	6	2024
 Linux	●●●●○	5	2024
 VMWare	●●●○○	6	2024
RPM	●●●○○	5	2024
Robot Framework	●●●●●	2	2024

DevOps Technologies	Skill level	Years experience	Last utilized
Bash/SH scripting	●●●●●	5	2024
SSH	●●●●●	4	2024
Artifactory/Jfrog	●●●●○	6	2024
CI/CD	●●●●●	5	2024

Tools	Skill level	Years experience	Last utilized
Confluence	●●●●●	6	2024
Jira	●●●●○	6	2024
Bitbucket	●●●●●	6	2024
GitHub	●●●●●	6	2024
IntelliJ	●●●●●	6	2024
PyCharm	●●●●●	6	2024
CodeScene	●●●●○	5	2024
Arc42	●●●●●	4	2024
ED109	●●●●●	2	2024
Draw.io	●●●●●	3	2024
Jekyll Markdown	●●●○○	1	2024
Wireshark	●●●○○	5	2024

Publications

Presentations &

Lectures

2024

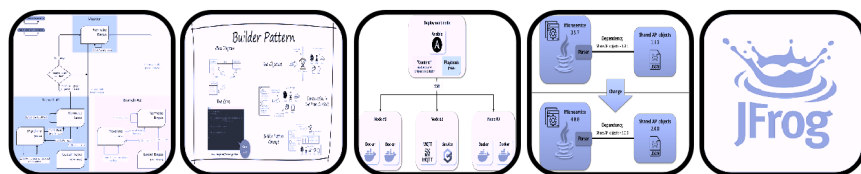


IDA/SFA - Military Drones and development of military technologies
<https://shorturl.at/bilyD>

From idea to app - Problem solving with iterative software development
<https://shorturl.at/gyzNP>

Blogs - www.INTEGU.net

2018 - 2024



Solving Jest-Image-Snapshot Font Rendering Issues Within A Modern Branching Strategy
<https://shorturl.at/jHPuW>

Design Patterns In Java
<https://shorturl.at/eEKNV>

Introduction To Ansible
<https://shorturl.at/FSTV0>

How To Handle API Dependencies In A Microservice Architecture
<https://shorturl.at/suwBI>

How To Manage Internal/External Package With Artifactory
<https://shorturl.at/qHIN6>

Education & Certifications

2023

2021

2020

2018

2017

2015 - 2017

2014 - 2015

2012 - 2015

Europea ED-109 (software assurance level) certified

Dansk IT - System Architect Practitioner

Dansk IT - IT Architect Foundation

Oracle - OCA - Java 8

Huawei - Seeds for the Future

M.Sc. Innovative Communication Technologies & Entrepreneurship

B.Sc - Management Center Innsbruck

B.Sc. Innovation and Business (IB)