# Daniel Høyer Bjørnskov

*Software Engineer & Software Architect.*

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## 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 ofSoftware 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 basedDevExtreme. 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 toa 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 ofRPM 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 RobotFramework 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, RobotFramework, 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 · Gradle · 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).
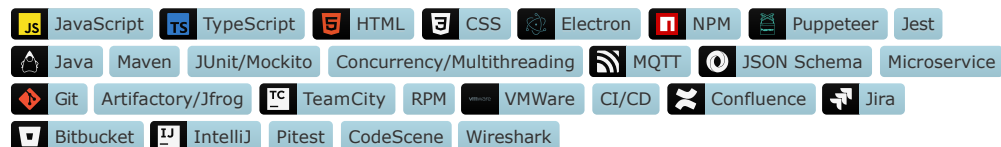
**Skills utilized**

JavaScript · TypeScript · Vue · HTML · CSS · Gridstack · Electron · DevExtreme · NPM · Puppeteer · Selenium · SPA · Jest · Java · Python · MongoDB · Redis · Karaf · Maven · JUnit/Mockito · Concurrency/Multithreading · MQTT · JSON Schema · Microservice · API design · Git · Docker · Artifactory/Jfrog · SSH · Ansible · TeamCity · Linux · RPM · Robot Framework · Bash/SH scripting · VMWare · CI/CD · Draw.io · Confluence · Arc42 · ED109 · Jira · Bitbucket · IntelliJ · PyCharm · Pitest · CodeScene · Jekyll Markdown · Wireshark

2018 - 2029 **Saab Danmark,** Software Engieneer

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 (SystemArchitect - 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**

JavaScript · TypeScript · HTML · CSS · Electron · NPM · Puppeteer · Jest · Java · Maven · JUnit/Mockito · Concurrency/Multithreading · MQTT · JSON Schema · Microservice · Git · Artifactory/Jfrog · TeamCity · RPM · VMWare · CI/CD · Confluence · Jira · Bitbucket · IntelliJ · Pitest · CodeScene · Wireshark

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**

JavaScript · TypeScript · Angular · HTML · CSS · NPM · Java · SQL · Maven · Gradle · JUnit/Mockito · Git · Artifactory/Jfrog · TeamCity · VMWare · CI/CD · Confluence · Jira · Bitbucket · IntelliJ

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

JavaScript   TypeScript   Angular   HTML   CSS   NPM   Java   SQL   Maven
JUnit/Mockito   Git   Artifactory/Jfrog   TeamCity   VMWare   CI/CD   Confluence   Jira
Bitbucket   IntelliJ

**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 |
| Gradle | ●●●○○ | 6 | 2019 |
| 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 |

| DevOps Technologies | Skill level | Years experience | Last utilized |
|---|---|---|---|
| Robot Framework | ●●●●● | 2 | 2024 |
| Bash/SH scripting | ●●●●● | 5 | 2024 |
| SSH | ●●●●● | 4 | 2024 |
| Artifactory/Jfrog | ●●●●○ | 6 | 2024 |
| CI/CD | ●●●●● | 5 | 2024 |

## Tools

| 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
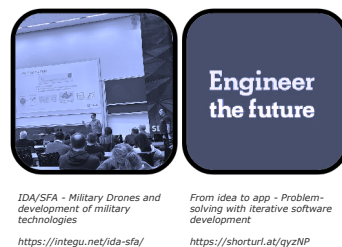


IDA/SFA - Military Drones and development of military technologies
https://integu.net/ida-sfa/

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

### Blogs - www.INTEGU.net  2018-2024
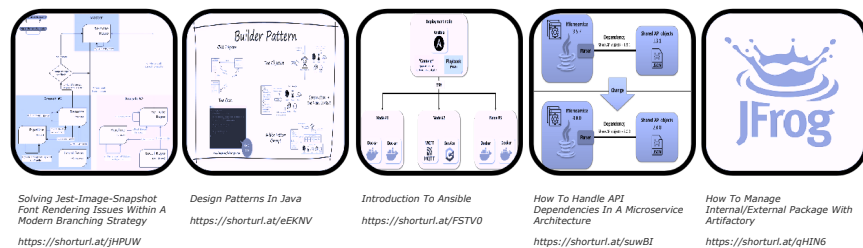


Solving Jest-Image-Snapshot Font Rendering Issues Within A Modern Branching Strategy
https://shorturl.at/jHPUW

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

| Year | |
|---|---|
| 2023 | Eurocea ED-109 (software assurance level) certified |
| 2021 | Dansk IT - System Architect Practitioner |
| 2020 | Dansk IT - IT Architect Foundation |
| 2018 | Oracle - OCA – Java 8 |
| 2017 | Huawei - Seeds for the Future |
| 2015-2017 | M.Sc. Innovative Communication Technologies & Entrepreneurship |
| 2014-2015 | B.Sc – Management Center Innsbruck |
| 2012-2015 | B.Sc. Innovation and Business (IB) |