

Daniel Høyer Bjørnskov

Software Engineer & Software Architect.

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Personal Profil

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

The consultant has experience with both frontend, backend and fullstack tasks and has previously also touched on the DevOps role. For the past four years, he has 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 the consultant's 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.

The consultant finds himself well at the crossroads between the development role and tasks of a more architectural nature - and he likes to be at the head of a team.

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

The consultant has a high level of initiative, ambition and personal expectation, all of which are driving forces for the consultant's work. The consultant assumes a great deal of responsibility for his and/or the team's tasks being solved to the best of their ability, so that the customer is helped well to the 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, Daniel's primary task was to design and develop the advanced TactiCall VCS product for the civil and military aviation industry.

During Daniel's 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, the consultant's 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 the consultant 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, the consultant's 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 - 2020

Saab Danmark, Software Engineer

In the first year at Saab, the consultant 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), the consultant was promoted to the role of Software Architect after one year.

In the role of Software Engineer, the consultant 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), the consultant has also built up good experience in debugging with tools such as Wireshark.

Skills utilized

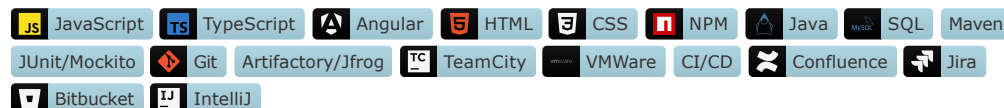


2018 - 2019

INTEGU, Freelance Software Consultant

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

Skills utilized



2018 - 2019

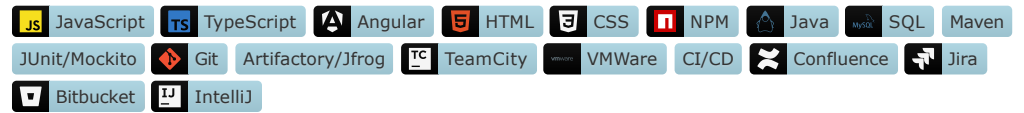
Capgemini, Software Engineer - Consultant

At Capgemini, the consultant worked as a software engineer on a major booking system for the healthcare system. The consultant 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, the consultant 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	<div><div></div><div></div><div></div><div></div><div></div></div>	4	2024
Software Engineer	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	6	2024
SCRUM-master	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	5	2024



Frontend Technologies

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







Backend Technologies

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

Fullstack Technologies

Fullstack Technologies	Skill level	Years experience	Last utilized
<div><div> MQTT</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div> JSON Schema</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div>Microservice</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div>API design</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	5	2024

DevOps Technologies

DevOps Technologies	Skill level	Years experience	Last utilized
<div><div> Git</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	6	2024
<div><div> Docker</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div> Ansible</div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	3	2024
<div><div> TeamCity</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	6	2024
<div><div> Linux</div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div> VMWare</div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	6	2024
<div><div>RPM</div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	5	2024
<div><div>Robot Framework</div></div>	<div><div></div><div></div><div></div><div></div><div></div></div>	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 &

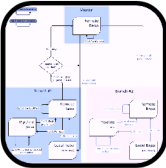
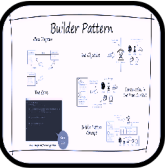
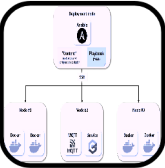
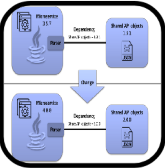

Lectures	2024
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IDA/SFA - Military Drones and development of military technologies
<https://shorturl.at/bilyD>

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

Blogs - www.INTEGU.net	2018 - 2024
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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	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)