

Education

Ph.D. in Computer Science (anticipated completion September 2024)

Bergen, Norway

WESTERN NORWAY UNIVERSITY OF APPLIED SCIENCES

Oct. 2020 - Present

• I am working as a Ph.D. student in model-driven software engineering. I research executable models, such as process models and state machines, to find control-flow errors or inconsistencies. As a result, one can find and fix errors early during development, preventing potential significant costs later in the development process.

Master of Science in Information Engineering

Hanover, Germany

FHDW HANOVER

Oct. 2018 - Apr. 2020

- GPA: 4.0/4.0, Grade A
- I was studying part-time while working full-time as a Software Engineer at SET GmbH.
- · Thesis: Development of semantics for the execution of production processes for the production management of the SET GmbH.

Bachelor of Science in Business Computing

Hanover, Germany

FHDW HANOVER

Oct. 2015 - Oct. 2018

- GPA: 3.7/4.0, Grade A
- I was studying while working at VHV-Group.
- Thesis: Developing a framework for the automated testing of BPMN processes in the VHV.

Skills_

Languages German (native), English (fluent), Norwegian (fluent), French (semi-fluent)

Programming Java (Spring, Gradle, Maven), Typescript & JavaScript (Angular, Ionic, HTML, CSS, bpmn-js), Rust (axum, tokio)

Programming Concepts Version Control, Concurrency, OOP, CI/CD (GitHub Actions, Jenkins), Containerization (Azure, GCloud)

Experience

Western Norway University of Applied Sciences

Bergen, Norway

Ph.D. Candidate in Software Engineering

Oct. 2020 - Present

- · During my Ph.D. I developed many tools, mainly using Java, JavaScript, and Rust, as you can see in the projects below.
- I contributed to open-source projects in the **bpmn-js** ecosystem, such as *bpmn-lint*, *bpmn-js-token-simulation* and *diagram-js*.
- I was a lecturer and teaching assistant in a course about **Android development** and **Advanced Software Technologies**, i.e., system integration using web services, shared databases and messaging. The programming languages used were **Java** (back-end) and **JavaScript** (front-end).

SET GmbH Hanover, Germany

SOFTWARE ENGINEER

Oct. 2018 - Oct. 2020

• I was part of a team **redesigning** the company's old production management system in **Java**. Before that, we implemented an Android app for one of our customers as a hybrid app based on web technologies. The app is vital to the letter production process and ensures the correct production of thousands of letters daily.

VHV-Group Hanover, Germany

STUDENT INTERN

Oct. 2015 - Oct. 2018

Dual course of study while acquiring a bachelor's degree in business computing. I mainly worked with Java to extend the testing framework
for our business processes implemented with the Camunda Workflow Engine and automate GUI regression testing with Selenium.

Projects.

Rust BPMN Analyzer

Bergen, Norway

RESEARCH PROJECT

Nov. 2023 - PRESENT

• I implemented an analyzer in Rust to automatically find, display and fix control-flow errors in a BPMN model by exploring all possible states.

Visual Debugger

Bergen, Norway

RESEARCH PROJECT

May. 2021 - PRESENT

• I developed an IntelliJ IDEA plugin which visualizes the variables during debugging as an object diagram which has over 9000 downloads.

Smart CoP

Hanover, Germany

PERSONAL PROJECT

Dec. 2019 - PRESENT

• I created an Android app and a progressive web app for gymnastics, which automatically calculates the difficulty score for gymnastic routines.