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Experience.

Microsoft Oslo, Norway Sept. 2025 - Present

SENIOR SOFTWARE ENGINEER

• I am working on planet-scale backend M365 services using C# that impact millions of people worldwide that use OneDrive, Outlook, and similar M365 applications.

Microsoft Oslo, Norway

SOFTWARE ENGINEER II Nov. 2024 - Aug. 2025

Western Norway University of Applied Sciences

Bergen, Norway

Ph.D. Candidate in Software Engineering

Oct. 2020 - Oct. 2024

- 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 - Sept. 2020

• I was part of a team redesigning the company's old production management system in Java that is vital to ensure correct physical mail production of thousands of letters per day. Before that, we implemented an Android app for one of our customers as a hybrid web-app.

Education

Ph.D. in Computer Science

Bergen, Norway

WESTERN NORWAY UNIVERSITY OF APPLIED SCIENCES

Oct. 2020 - Sept. 2025

· I completed a Ph.D. in model-driven software engineering. I researched 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), 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

Hanover, Germany

FHDW Hanover

Oct. 2015 - Oct. 2018

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

Ski**lls**_

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

Programming C#, Java (Spring, Gradle), 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)

Projects

RESEARCH PROJECT

Smart CoP

BPMN Analyzer 2.0 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

May. 2021 - PRESENT

I developed an IntelliJ IDEA plugin which visualizes the variables during debugging as an object diagram which has over 10.000 downloads.

Dec. 2019 - Apr. 2025 PERSONAL PROJECT

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

SEPTEMBER 23, 2025 TIM KRÄUTER · CURRICULUM VITAE