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Experience.

Microsoft Oslo, Norway SOFTWARE ENGINEER II Nov. 2024 - Present

• I am working on core M365 services impacting millions of people worldwide.

Western Norway University of Applied Sciences

Bergen, Norway Oct. 2020 - Nov. 2024

Ph.D. Candidate in Software Engineering

- · 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-is ecosystem, such as bpmn-lint, bpmn-is-token-simulation and diagram-is.
- 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.

Education

Ph.D. in Computer Science (anticipated completion February 2025)

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

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 Oct. 2015 - Oct. 2018

Bergen, Norway

FHDW HANOVER

FHDW HANOVER

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 C#, Java (Spring, Gradle), Typescript & JavaScript (Angular, Ionic, HTML, CSS, bpmn-is), Rust (axum, tokio) Programming Concepts Version Control, Concurrency, OOP, CI/CD (GitHub Actions, Jenkins), Containerization (Azure, GCloud)

Projects.

Visual Debugger

BPMN Analyzer 2.0 Bergen, Norway

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.

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.

Smart CoP Hanover, Germany

Dec. 2019 - PRESENT PERSONAL PROJECT · I created an Android app and a progressive web app for gymnastics, which automatically calculates the difficulty score for gymnastic routines.

DECEMBER 7, 2024 TIM KRÄUTER · CURRICULUM VITAE