Robin Ohs

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EDUCATION

SAARLAND UNIVERSITY

MSc in Computer Science
Exp. 2023 | Saarbrücken, Germany

BSc in Cyber Security
Sep 2020 | Saarbrücken, Germany

COURSEWORK

GRADUATE

Artificial Intelligence
Data Networks
Embedded Systems
Software Engineering
Space Informatics
Hands-On Dependability with Rust
Side-Channel Attacks and Defenses
Physical-Layer Security
Digital Currencies & Smart Contracts

UNDERGRADUATE

Functional Programming
Object-oriented Programming
Concurrent Programming
Big Data Engineering
Software Engineering Lab
Cyber Security Project
Algorithms and Data Structures
Web Security
Cryptography
Generating Software Tests

SKILLS

PROGRAMMING

Kotlin/Java • Spring Boot
Typescript • React
Python • REST • GraphQL
Rust • C/C++

LANGUAGES

English   (Fluent)
German   (Native)
French   (Basic)
Norwegian   (Basic)

EXPERIENCE

SAARLAND UNIVERSITY | Software Engineer Working Student

Jan 2023 - July 2023 | Saarbrücken, Germany

- Contribution to a Rust library for making applications resource-aware.
- Implementation of a system daemon to enable carbon-aware operating systems.

SAARLAND UNIVERSITY | Software Engineer Working Student

June 2021 - June 2022 | Saarbrücken, Germany

- Implementation of a dynamic simulator for satellite scheduling and energy data processing using Java and the Spring Framework.
- Creation of a REST api and React.Js web application using Typescript.
- Calculation of satellite orbit data using Orekit and two-line elements.

GERMAN AIRFORCE | Software Engineer

Sep 2020 – April 2021 | Erndtebrück, Germany

- Full stack development - writing, testing and reviewing code for back-end and front-end development for an internally developed Java application.
- Participate in regular sprint events such as dailies and sprint reviews as part of a scrum team.
- Developed a converter to import software requirements from third-party programs into Jira.

SRT GMBH | Software Engineering Intern

Jan 2020 – April 2020 | Saarbrücken, Germany

- Developed a key licensing infrastructure for the licensing of the company's software products (Backend + Web interface).
- Generating secure license keys with cryptographic hash algorithms and signatures.
- Creation of an Android library for easy integration of the licensing mechanism into native applications.

RESEARCH

CISPA - CENTER FOR INFORMATION SECURITY | Thesis

June 2020 – Sep 2020 | Saarbrücken, Germany
EU: 1.0 (Seminar) + 1.7 (Writing) | GPA: 4.0/4.0 (Seminar) + 3.3/4.0 (Writing)

- **Topic:** Testing apps with probabilistic grammars
- Under the supervision of **Andreas Zeller**, we researched whether it is possible to merge multiple grammars encoding the same Android application into a single, more representative one and control the test generation with probabilistics gained by the merging algorithm.

CERTIFICATES

STK CERTIFICATION LEVEL 1 | AGI (Analytical Graphics, Inc.)

Issued April 2020 | Saarbrücken, Germany
Basic understanding of STK functionalities such as mission propagation, create custom reports and film mission sequences.