Frederik Berg

https://frederikberg.com

	maps.//medenkbeig.com
	Academic Career
09/2023 - Present	Upskilling in Information Security and AI Safety , <i>RWTH Aachen</i> , Lecture: Cryptography and network security, Certificates: TryHackMe and Google Professional Cybersecurity Certificate, CompTIA Security+ in progress.
08/2022 - 09/2023	[Quit] PhD Computer Science, Chair for Embedded Software at RWTH Aachen, Research: functional safety of medical embedded devices (first author publication, for more see Google Scholar), Teaching: managing and supervising seminar students and giving tutorials.
04/2022 - 10/2022	[One Semester] Computer Science Fundamentals, RWTH Aachen, Gathering preliminary computer science knowledge like data and algorithmic foundations.
04/2019 - 01/2022	Master Automation Engineering , <i>RWTH Aachen</i> , Specializing on embedded programming, Master thesis: "Design of a Software Architecture for a Blood Pump Control and Selection of a Control Strategy for the Blood Pressure" (Grade: 1.0), Final grade: 1.4.
07/2017 - 12/2017	Erasmus Semester Abroad , <i>Norwegian University of Science and Technology Trondheim</i> , Lectures about system development and programming.
10/2014 - 12/2018	Bachelor Mechanical Engineering , <i>Leibniz University Hanover</i> , Bachelor thesis: "Programming of a smartphone's camera for detection and demodulation of light signals in optical wireless channels" (Grade: 1.0), Final grade: 2.0.
2014	Abitur, Leibnizschule Hannover, Final grade: 1.2.
	German Grades: $1.0 = A$, $5.0 = F$
	Experience
11/2023 - Present	Development and publishment of a Nextcloud server app , <i>PHP</i> , <i>JavaScript</i> , <i>Vue and Gitlab CI</i> , (Link to project).
08/2023	Maschine Learning 4 Good (ML4Good) , <i>Germany</i> , Al safety and alignment camp, Personal project: Compute governance.
03/2023 - Present	Effective Altruism Aachen local group co-organizer, Germany.
10/2020 - 08/2022	Software Development for Measurement Equipment (Student Job) , <i>Chair for Embedded Software at RWTH Aachen</i> , Design and implementation of software to control measurement equipment like a blood pump control.
04/2019 - Present	Linux Homeserver Development and Software Projects, frederikberg.com.
10/2018 - 03/2019	Android App Development (Student Job) , <i>Institute of Tansport and Automation Technology Hannover</i> , Programming a camera module and processing signals.
05/2017 - 07/2017	Software Development (Internship) , KraussMaffei Berstorff GmbH Hannover, Programming of the control system BPC Touch.

Languages

German native English fluent