

# Frederik Berg

## Cybersecurity Analytics



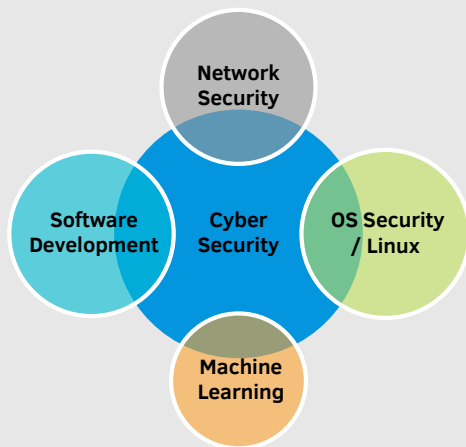
frederikberg.com



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## Skills

### Technical



### Soft

- Management
- Documentation
- Collaboration
- Teaching

## Education

### Computer Science Continuing Education

Courses in Network Security and Cryptography, Machine Learning, Data and Algorithmic Foundations  
RWTH Aachen, Germany  
04/2022 - 03/2024

### MSc., Automation Engineering (Grade: 1.4)

Specialization: Embedded Programming  
RWTH Aachen, Germany  
04/2019 - 01/2022

### Erasmus Semester Abroad - Norway

Lectures about System Development and Programming  
Norwegian University of Science and Technology, Trondheim  
07/2017 - 12/2017

### BSc., Mechanical Engineering (Grade: 2.0)

Specialization: Programming and Control  
Leibniz University Hannover, Germany  
10/2014 - 12/2018

### Abitur (Grade: 1.2)

Leibnizschule Hannover, Germany  
2014

(1.0=A, 5.0=F)

## Bio

I am currently working as a Security Analytics Consultant at **SVA System Vertrieb Alexander GmbH**. Previously, I was a Research Assistant at **RWTH Aachen University**, where my research focused on the **safety** of embedded medical devices. Over time, my interest has increasingly shifted towards **cybersecurity**, a field of high impact and **crucial** importance in which I am now actively engaged. My strengths include a strong **motivation to learn**, the ability to solve **complex problems**, exceptional **organizational** skills, and a commitment to producing well-**documented work**.

## Experience

09/2023 - 03/2024 **Cybersecurity Certifications and Upskilling** RWTH Aachen, Germany

- Lecture: Network security and cryptography
- Certificates: Google Professional Cybersecurity Certificate, TryHackMe, (CompTIA Security+ Certificate in progress) (For more see: Link)

08/2022 - 09/2023 **Research Associate in Computer Science** RWTH Aachen, Germany  
Chair for Embedded Software

- Conducted research on the functional safety of medical embedded devices.
- Authored multiple publications, including first-author papers. For more details, see: Google Scholar.
- Supervised a lecture on Advanced Microcontroller Programming and Debugging, focusing on safe and verifiable software.
- Managed projects and supervised students.

08/2023 - 09/2023 **Maschine Learning 4 Good (ML4Good)** Germany

- Participated in AI safety and alignment camp, focusing on ethical applications of machine learning.

06/2023 - 11/2023 **Development of a Nextcloud Server App** Germany

- Developed and published a Nextcloud Server App, leveraging PHP, JavaScript, Vue, and Gitlab CI. (Project Link)

03/2023 - Present **Effective Altruism Aachen Co-Organizer** Aachen, Germany

- Coordinating events and participating in conferences and online courses focusing on effective, impactful solutions for global challenges.

10/2020 - 08/2022 **Software Development (Student Job)** RWTH Aachen, Germany  
Chair for Embedded Software

- Developed software for controlling medical equipment, including a blood pump control system, using C and Matlab.

04/2019 - Present **Linux Homeserver Development and Security Projects** Germany

- Established network infrastructures and implemented monitoring and security systems. Engaged in various software development projects using Python and Bash. Actively contributed to open-source software and documentation.

10/2018 - 03/2019 **Android App Development (Student Job)** Hannover, Germany  
Institute of Transport and Automation Technology

- Developed an Android camera module application for processing visible light signals, utilizing Java.

## Languages

German: Native | English: Fluent