Frederik Berg

Cybersecurity Analytics

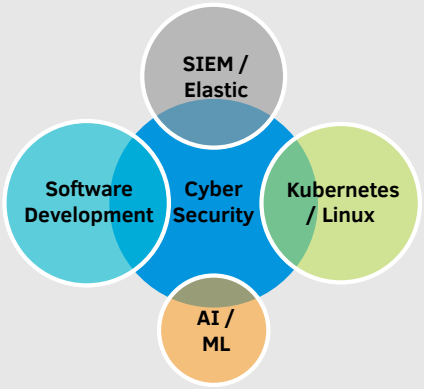
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Skills

Technical



Soft

- Management
- Collaboration
- Documentation
- 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 work as a Security Analytics Consultant at **SVA System Vertrieb Alexander GmbH**, where I build and operate **SIEM** and **SOC** platforms on **Elastic Security**. Before that, I was a Research Associate at **RWTH** Aachen University, researching the **safety** of embedded medical devices. I like turning complex systems into **automated**, well-**documented** code, I pass on what I know in **trainings** and talks, and I keep learning through **certifications** and my own security homelab.

Experience

05/2024 - Present — **Security Analytics Consultant** — Aachen, Germany
SVA System Vertrieb Alexander GmbH

- Building and operating a fully automated, multi-tenant SOC platform on Elastic Security: everything as code with Terraform, Ansible and CI/CD, detection rules deployed per customer, Fleet and Elastic Defend. Further SIEM and detection engineering projects for customers, including a central vulnerability management platform on Elastic.
- IT security workshops, trainings and talks: sessions and hands-on labs for an IT security bootcamp, and a customer webinar with a live demo of the SOC platform.

04/2019 - Present — **Security Homelab and Personal Projects** — Germany

- Elastic SIEM on my own Kubernetes cluster, configured entirely as code: detection rules over Kubernetes audit logs, network flows and container runtime events, with AI agents that triage alerts and security advisories and operate the cluster.
- A personal AI assistant infrastructure built on Claude Code, with a backend, web and iOS clients, long-term memory and scheduled agents.
- MailVerdict: an open-source, self-hosted mail client in which a language model gives spam verdicts (GitHub).

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 — **Machine Learning for Good (ML4Good)** — Germany

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

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

- Organizing the local group's meetups and events and looking after its website and newsletter.

Certifications

Elastic Certified Engineer, Analyst, Observability Engineer and SIEM Analyst | Certified Kubernetes Application Developer (CKAD) | CompTIA Security+ | Google Cybersecurity Professional Certificate | Tines Core and Advanced

Languages

German: Native | English: Fluent