





Fabian Kopp


Research Assistant

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About me

Hello! I am Fabian, 25 years old, and was born and raised in Berlin. For the last years worked at BTU-Cottbus as a machine learning research assistant and also helped to create a cybersecurity hacking lab. As part of my master's curriculum, I worked at Bosch.IO for half a year and helped to build a smart logistics pipeline. Now I am looking for my first industry job in the field of IT security. In my free time, I like to play table tennis and chess, cook, create generative art, and enjoy a good walk.

Skills

- python3
- javascript
- bash
- haskell
- java
- php
- css
- html5
- c++
- vhd
- go
- powerShell
- snort3
- jupyterLab
- Linux
- research
- teaching
- nasm
- sql
- unix
- git
- tshark
- metasploit
- pytorch
- sklearn
- azure
- pySpark
- tex
- wordpress
- scapy
- pandas
- scrapy
- openCV
- p5.js

Education

- 2018 - now Master of Science - Computer Science BTU-Cottbus
Thesis: Automated feature extraction on network traffic data for anomaly detection
- 2013 - 2018 Bachelor of Science - Computer Science BTU-Cottbus
Thesis: Anomalieerkennung in Kraftwerksnetzen mithilfe maschineller Lernverfahren (1,8)
- 2009 - 2013 High School Kant-Gymnasium Berlin-Spandau

Work Experience

- 2016 - now Research Assistant BTU-Cottbus: Chair of Computer networks
- theoretical work on publications in the field of ICS security implementations with tools like *tshark*, *snort* and *pOf* in *python*
- 2019 - now Software Development Freelance
- fullstack development for websites with *js*, *php* and *mysql*
- developed a computer vision application using *openCV* & *pyQT*
- 2020 Teaching Assistant for 1 semester BTU-Cottbus: Chair of IT Security
- designed tasks sheets for the 'Ethical Hacking' lab with topics like: *mobile & web security*, *hash collisions*, *dns exploits* and *meltdown*
- 2019 Data Scientist Intern for 6 month Bosch.IO Berlin
- designed a smart logistics pipeline with *azure* and *pySpark*
- build machine learning models for predictive maintenance

Awards

- 2018 1st place at *LWTP* with the INDI research project
- 2019 1st place at *BCX Hackathon: Social Impact Challenge (BestBugs)*

Papers

- 2018 Attack and Fault Detection in Process Control Communication Using Unsupervised Machine Learning (*IEEE INDIN*)
- 2018 Catching Intrusions: Classifier Performances for Detecting Network-specific Anomalies in Energy Systems (*IEEE SEST*)

Interpersonal Skills

- Attentive and actively listen
- Capable of giving and taking criticism

Tech Hobbies

- creative coding & code golfing (dwitter.net)
- open source development (sklearn, snort3, pytorch)
- deep learning research (NLP, GAN)
- penetration testing platforms (hackthebox)

Languages

- German - native
- English - fluent