

MASTER STUDENT IN COMPUTER SCIENCE - CYBER SECURITY AT UTWENTE

【 (+31) 6 16853598 | ■ developer.krisz+cv@gmail.com | m k-szabo-dev | У V4K0ND

Technologies

Programming Languages Python ♣, Shell scripting ➤, SQL ➡, Golang •60, Java ﴿,

Libraries/Frameworks Torch, Numpy, Pandas, Hugging Face, Jupyter, Django, PostgreSQL

OS's Windows ■, MacOS ♠, Ubuntu; and open to learning any *nix △

Tools Git git, Docker 🐡, LaTeX, Android SDK 🜥

Languages English (Cambridge C2), Hungarian (Mother tongue), Romanian

Education

University of Twente

Enschede, Netherlands

MASTERS COMPUTER SCIENCE - CYBERSECURITY SPECIALIZATION

graduation expected by Jul 2025

- **Skills Gained**: Cybersecurity strategy development, MITRE ATT&CK, Ghidra, advanced data analysis, machine learning in security, privacy enhancement, risk management, Natural Language Processing.
- Projects: Privacy preserving machine learning, IoT device traffic analysis, DNS Security Analysis, TLS Scanner and Analyzer

University of Twente

Enschede, Netherlands

BSC. TECHNICAL COMPUTER SCIENCE

2023 Apr

- Thesis title: Morphing robust face recognition: Compared the resiliency of state-of-the-art face recognition methods to adversarial attacks.
- Skills Gained: Software systems design, algorithm optimization, functional programming, abstract algebra applications, shell scripting.
- Projects: Al algorithm to detect and filter out humans in wildlife camera

Experiences



Leiden, Netherlands / Remote

ML OPS RESEARCH INTERN - DOCKER / PYTHON / DJANGO / BACKEND / JIRA

Nov 2022 - Present

- Researched and implemented ML Ops frameworks (Weights and Biases, Mlflow, BentoML, ...) and built out pipelines for versioning and serving Al algorithms
- Implemented connection between HuggingFace models to be used in ARISE model selection
- Achieved an 89% accuracy in detecting humans with an algorithm fine tuned for wildlife cameras, currently used to delete images of humans from wildlife camera datasets due to GDPR, which I have also converted to run on Snellius (Dutch Supercomputer)
- Investigated the inner workings and repurposed an already existing AI challenge app to automatically create leaderboard on specified metrics to integrate with the above mentioned frameworks
- Contributed to the development of AI algorithms which detect and identify species based on their genetic code for ARISE's platform

BestJobs

Machine Learning Intern

Targu Mures, Romania

Jul 2019 - Aug 2019

Language de la contra dela contra de la contra dela contra de la contra dela contra de la contra dela contra de

- Learned about and implemented Linear Regression Models
- Learning was largely based on Andrew Ng's coursera course named "Deep learning"

Projects

SECURITY PROJECT

Self learning security

Since 2022

- Deployed canarytokens on hosted server at Hetzner using https://github.com/thinkst/canarytokens, deployed a canarytoken instance to research it's capabilities.
- Installed and explored Elasticsearch to gain hands-on experience with its capabilities and filtering techniques

Home network upgrade

HOME PROJECT 2020 - 2021

- · Completely upgraded my home networking stack to enable easier management/deployment for future home projects
- Learned a about the enterprise level networking equipment (Ubiquiti Edgemax and UniFi)
- · Self hosting on Raspberry Pi's various software (HomeAssistant, Unifi Network Controller, PiHole)
- Configured VLAN for IoT devices

JANUARY 23, 2025 KRISZTIÁN SZABÓ · CURRICULUM VITAE

Self hostable and expandable IoT sensor home monitoring

University Group Project

- Developed a software which enables end users to self host and monitor sensor using MQTT
- Similar to home assistant/HASSIO
- Hardware used: Raspberry Pi, Arduinos with various sensors

Extracurricular Activities

Security / Privacy / OSINT

INTEREST

- Highly interested in and deeply passionate about security, privacy and OSINT
- Participated in and follow as many workshops / webcasts / conference as I can, my favourites being Blackhills Infosec, and PancakesCon

Twente Hacking Squad

INTEREST

- Part of the university hacking team, where Phd students present and walk through hacking methods in: Forensics, Reverse engineering, Pwning, Web hacking
- Participated in multiple capture the flag (HacktheboxCTF, DownunderCTF, Cancakescon CTF, LA CTF) ctftime link