MASTER STUDENT IN COMPUTER SCIENCE - CYBER SECURITY AT UTWENTE

Enschede, open to relocate

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Technologies.

Programming Languages Python ♣, Shell scripting >__, SQL ■, Golang ***60**, Java <u>&</u>, Rust

Libraries/Frameworks Torch, Numpy, Pandas, Hugging Face, Jupyter, Django, (Postgre My)SQL

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

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

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

Education

University of Twente

Enschede, Netherlands

MSC. COMPUTER SCIENCE - CYBERSECURITY SPECIALIZATION

2023 sept - Present

- 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

2017 jun - 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_

Arise - Website, Linkedin

Leiden, Netherlands / Remote

ML OPS ENGINEER - 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
- Restructured and implemented various **HuggingFace models** to be used at ARISE (GPU accelerated)
- 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)
- Configured and deployed an existing open source 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

Local flower company

MACHINE LEARNING INTERN

WEBSITE DEVELOPER - HTML / CSS / JS / PYTHON (FLASK) / MYSQL

May 2019 - Present

- · Migrated website hosting from local company to hosterion for improved performance and reliability.
- Rewrote website using responsive design guidelines, generating a codebase with a static website generator.
- Developed frontend with HTML, CSS, and vanilla JavaScript, while backend utilized Python (Flask) for language switching and database fetching.

BestJobs Tarqu Mures, Romania

Jul 2019 - Aug 2019

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

Projects _____

Self learning security

SECURITY PROJECT Since 2022

Deployed canarytokens on hosted server at Hetzner using https://github.com/thinkst/canarytokens, deployed a canarytoken instance to research itscapabilities.

- Installed and explored **Elasticsearch** to gain hands-on experience with its capabilities and filtering techniques
- Began using hardware keys across every online service

Home network upgrade

 HOME PROJECT
 2020 - 2021

- Completely upgraded my home networking stack to enable easier management/deployment for future home projects
- Purchased and deployed at home 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

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
- 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



INTEREST

- Part of the university hacking team, where Phd students present and walk through hacking methods in: Forensics, Reverse engineering, Pwning, Web hacking
- Some of the used software or techniques: Ghidra, OWASP ZAP, SQLi, OWASP Top Ten, chainsaw (windows forensics)
- · Participated in multiple capture the flag (HacktheboxCTF, DownunderCTF, Cancakescon CTF, LA CTF) ctftime link