Krisztián **Szabó**

MASTER STUDENT IN COMPUTER SCIENCE @UTWENTE

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Technologies

Programming	Python 🐍, Docker 🐳, Shell scripting >_, SQL 🗄, Javascript Js, HTML 5 & CSS 3, Java ☕, Android SDK 🤖, LaTeX
Libraries/Frameworks	Numpy, Pandas, Jupyter, Django, PostgreSQL
OS's	Windows ⊞, Ubuntu ◉, MacOS 🍎; open to learning any *nix 🐧
IDE's	Visual Studio Code, Sublime Text, IntelliJ, Android Studio
VCS	Git **git**
Languages	English (Cambridge C2), Hungarian (Mother tongue), Romanian

Education

University of Twente   *Enschede, Netherlands*

MASTER COMPUTER SCIENCE   *graduation expected by Jul 2025*

- Cybersecurity specialization

University of Twente   *Enschede, Netherlands*

TECHNICAL COMPUTER SCIENCE   *2023 Apr*

- *Thesis title*: Morphing robust face recognition

Experiences

Arise   *Leiden, Netherlands / Remote*

ML OPS RESEARCH INTERN - DOCKER / PYTHON / DJANGO / BACKEND / JIRA   *Nov 2022 - Present*

- Researched and implemented various ML Ops frameworks and built out pipelines for versioning and serving AI algorithms
- 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
- Converted human detection algorithm to run on Snellius (Dutch Supercomputer)
- Helped with the development of the ARISE platform's Digital species identification

BestJobs   *Targu Mures, Romania*

MACHINE LEARNING INTERN   *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

Human detection in biodiversity monitoring   *Made for Arise*

UNIVERSITY DESIGN MODULE GROUP PROJECT   *Sept - Nov 2022*

- Designed and developed a containerized AI algorithm to detect and filter out humans in heterogenous camera trap data, which reports back the Bounding Box for the found human in the format specified by Arise's API.
- Developed a containerized algorithm evaluation webapp for generating various performance metrics graphs for AI developers at Arise. Code can be found here
- Design Report can be found here

Wappler integration   *At Wappler*

INTERNSHIP THROUGH UNIVERSITY MINOR   *Sept 2021 - Nov 2021*

- Report can be found here

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

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

Romanian Scouts / The Pathfinder Club *Romania*

LEADER *Jun 2013 - Present*

- Successfully coordinated and organized multiple week-long camps, overseeing all aspects of event planning, logistics, and execution.
- Designed and implemented a variety of engaging activities tailored to the participants' interests and needs, enhancing their overall camp experience.
- Demonstrated strong problem-solving skills and adaptability in dynamic, fast-paced settings.
- Photographed over 10 events, capturing key moments and effectively documenting the experiences for promotional and archival purposes, available at kepek.osker.ro.
- Media team leader for 4 camps

Security / Privacy / OSINT

INTEREST

- I am highly interested in and deeply passionate about security, privacy and OSINT
- I try to participate in as many workshops / webcasts / conference as I can, my favourites being Blackhills Infosec, and PancakesCon

Videography and Photography

HOBBY

- Have been practising and learning photography since the age of 16, self taught
- Picked up videography from the age of 19, self taught
- Tools: Lightroom, Premier Pro, Sony A7 III, iPhone 13 Pro