

Krisztián Szabó

BACHELOR STUDENT IN TECHNICAL COMPUTER SCIENCE @UTWENTE

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Technologies

Programming	Python 🐍, Docker 🐳, Shell scripting >, SQL 🗄, Javascript 📄, HTML 📄 & CSS 📄, Java ☕, Android SDK 🤖, LaTeX
Libraries/Frameworks	Numpy, Pandas, Jupyter, Django, PostgreSQL
OS's	Windows 🪟, Ubuntu 🐧; open to learning any *nix 🐧
IDE's	Visual Studio Code, Sublime Text, IntelliJ, Android Studio
VCS	Git 📄
Languages	English, Hungarian, Romanian

Education

UT University of Twente

TECHNICAL COMPUTER SCIENCE

- Thesis title: Morphing robust face recognition

Enschede, Netherlands

expected by Apr 2023

Experiences

Arise

ML OPS RESEARCH INTERN

- 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

Leiden, Netherlands / Remote

Nov 2022 - Present

BestJobs

MACHINE LEARNING INTERN

- Learned about and implemented Linear Regression Models
- Learning was largely based on Andrew Ng's coursera course named "Deep learning"
- For verification: coursera.org/verify/G635EXY7M4V2

Targu Mures, Romania

Jul 2019 - Aug 2019

ERMA Prod Com

WEBSITE / GENERAL IT / PRODUCT MARKETING

- Gave a new look to the companies aging website, most important update being responsive design (customers use mobile devices)
 - old: <https://www.erma.ro/ermavirag/index.html>
 - new: <https://flori.erma.ro/>
- Migrated domain, hosting, email service provider from a local legacy one to Google Workspace and Hosterion
- Administer users of the company
- Introduced a CRM and configured it for the need of the company

Miercurea Nirajului, Romania

April 2020 - Present

Projects

Human detection in biodiversity monitoring

UNIVERSITY DESIGN MODULE GROUP PROJECT

- Developed a containerized algorithm evaluation webapp for generating various performance metrics graphs for AI developers at [Arise](#). Code can be found [here](#)
- 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 the [Arise](#) companies API.
- Design Report can be found [here](#)

Made for [Arise](#)

Sept - Nov 2022

Wappler integration

INTERNSHIP THROUGH UNIVERSITY MINOR

- Report can be found [here](#)

At [Wappler](#)

Sept 2021 - Nov 2021

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
- Similar to [home assistant/HASSIO](#)
- Hardware used: Raspberry Pi, Arduino,

Road Crossing Co-op

UNIVERSITY GROUP PROJECT

- Developed a real life implementation of Crossy Road on top of prebuilt player movement detection system
- Used Kinect SDK v1.8, OpenCV, Python, Bash, self developed wearable, prebuilt system
- Responsible for object detection and tracking, hardware/software troubleshoot of wearable and prebuilt system
- link to prebuilt system and study <https://doi.org/10.1016/j.entcom.2016.03.001>

Web app for OVSoftware B.V.



UNIVERSITY GROUP PROJECT

- Web application for maintenance of internal pay rates for OVSoftware (used Java, Tomcat, PostgreSQL)
- Responsible for back-end and security

Presentation

Tech talks on TV (in Hungarian)

Dec. - Apr. 2021

- Presented various technology and software related facts about privacy and security to the general public
- Themes discussed includes: Passwords, Ad tracking methods, Online Scams
- Can be viewed on: [Youtube](#) , [Facebook](#)  (facebook search might not show all of the videos)

Extracurricular Activities

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](#)

Video making and Photography

INTEREST

- Have been practising and learning photography since the age of 16, self taught
- Picked up video making from the age of 19, self taught
- Tools: Lightroom, Premier Pro, DJI Osmo Mobile 3, Nikon DSLR, iPhone 12
- Mostly working on product photography and video, for example: <https://fb.me/ErmaProdCom>

Romanian Scouts/Pathfinders

LEADER

Romania

Jun 2013 - Present

- Developed and practised leadership skills
- Took part in planning and organising multiple summer camps