Daniel Blasko

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SKILLS

Programming Languages:
- **Python** (Data and ML libraries, Flask...)
- **C, C++** (systems & parallel programming, CUDA basics)
- **Java** (Swing, Spring, Android SDK)
- **Dart** (Flutter)
- **Javascript, PHP**

Data science/ML tooling:
Frameworks - hands-on experience with :
- **PyTorch**
- **Jax**
- **HuggingFace** (transformers, diffusers)
- **OpenCV**
- **Scikit-learn**
- **Streamlit, Gradio**

Projects in computer vision, NLP, information retrieval.

Data-focused computing:
- **AirFlow**
- **Spark**
- **Hadoop**

Knowledge graphs:
- **PyTorch Geometric (GNNs)**

Systems:
- Experienced with UNIX environments (**Linux, MacOS**...).
- Network infrastructures and industrial networking protocols.

Deployment & integration:
- **Docker, Kubernetes**
- **Gitlab CI / Github Actions**

Databases:
- **SQL / PL/SQL**
- **PostgreSQL**
- **Oracle, MongoDB Neo4J, DynamoDB**

EDUCATION

MSc. Data Science (excellence scholarship)　　　　**2022-2024**
Vienna University of Technology (TU Wien), Austria

MEng. Computer Science　　　　**2020-2024**
National Institute of Applied Sciences Lyon (INSA Lyon), France

Higher National Diploma in Computer Science　　　　**2018-2020**
IUT Lyon 1, France

EXPERIENCE

CANVA - *Vienna, Austria*　　　　JUN.-SEP. 2024
Machine Learning Engineer - Intern
- **Synthetic data generation** with a custom **diffusion model** for large-scale training of a **trimap segmentation model**.
- Set up experiments and human evaluation to demonstrate how the data mix I designed **improves the model that is currently in production** on multiple client use-cases.
- **Distributed training** on a **Kubernetes** cluster, implementation in **Pytorch**.

UNIVERSITY OF OXFORD - *Remote*　　　　DEC. 2023 - NOW
Student Researcher
- Training **large scale vision-language-models** for **explainable** X-ray diagnosis.
- Involved **object detection**, **classification**, **contrastive image-text pretraining**, **modality fusion** and **large language models**.
- Tooling and implementation in **Pytorch**.
- **Distributed training on a multi-GPU cluster**.

CISCO - *Lyon, France*　　　　MAY-SEP. 2022
Data Science for IoT Security - Intern
- **IoT network data analysis/modelling** to track devices in Cisco Cyber Vision.
- Created client-dataset **analysis and reporting** tools.
- Integrated **machine-learning** algorithms in the product for network component classification and clustering.

WORLDLINE GLOBAL - *Lyon, France*　　　　JUN.-AUG. 2021
Mobile Application Development Intern
- **Cross-platform mobile banking** development in **Flutter**.
- Analyzed the ecosystem in a **presentation and written article** synthesizing the tradeoffs of a transition to Flutter for new projects.

NATBRAILLE & LIRIS LAB. - *Remote*　　　　APR.-JUL. 2020
Fullstack Software Development Intern
- Created a **pedagogical web application to teach Braille** in **PHP/JavaScript**.
- Led **user interviews**, **specified requirements** and modelized the architecture.

TRANSCHAIN - *Strasbourg, France*　　　　JUL.-AUG. 2019
R&D Internship
- **Scrum**-based development an **API**, multiple **GUIs** and system scripts in **Golang.**
- Heavy use of **Docker** and creation of multiple **continuous integration** scripts.
- Ensured a high **test-coverage** for every project.
- The created tools are used by clients & internally.

LANGUAGES

French : Native, C2　　　　**Slovak** : Native, C2
English : TOEIC 990/990, C1 certificate　　　　**German** : DSD2, C1 certificate