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 Computer Vision
 Stream



Anton DOROZHKO



EXPERIENCE

- 2022 – 2024 **Senior Computer Vision and Solutions engineer (SmartCowAI)** 📍Paris, France
 Delivered customized Smart Spaces solutions based on Nvidia Deepstream and Metropolis
 Microservices on Nvidia Jetson edge devices and server's GPUs
 Optimize and scale object detection, ocr, action recognition models to support 100s video
 processing pipelines
 Extend search by video with VLMs (ViLA) integration
 Help a team of 8 SWEs to apply and implement continuous delivery best practices
- 2021 – 2022 **Principal Engineer (Wintics)** 📍Paris, France
 Help team to apply Modern Software Engineering principles : (CD, MLOps)
 Choose and evaluate architecture/technologies tradeoffs
 Plan improvements with 2-3 month scope
 Optimize and scale Wintics CityVision product to analyze 100s real-time streams
- 2020 – 2021 **Full Stack Deep Learning Engineer**
 Create a deployment and monitoring system for 20+ models, 3B+ inferences.
 Reduced inference latency 2-4x on Nvidia Jetson. Configuration of experiment tracking and
 pipeline simplification (4x more experiences)
- 2018 - 2019 **Computer Vision Engineer**
 Detection and tracking to count and track different types of vehicles on intersections
 Embedding of models for Nvidia Jetson. NAS to reduce model size and latency
- 2013 – 2017 **Machine Learning Developer (Expasoft LLC)** 📍Novosibirsk, Russia
 Created a prediction model for wagon provisioning for oil refineries. Tuned a system of
 face recognition based on embeddings and tracking to use it in small shops, deployed on
 Raspberry PI

EDUCATION

- 2015 – 2019 **MSc computer science + engineer** 
 Télécom ParisTech (France, Paris) and NSU (double degree)
 Datascience and Applied Mathematics GPA : 4 / 4
- 2011 – 2015 **BSc computer science** 
 NSU (Novosibirsk State University, Russia)
 Discrete analysis and operation reserch GPA : 4.9 / 5 with honors

TOOLS

- ML/DL** | MaskRCNN, YOLO, TensorRT, ONNX, Triton, Detectron2
 mmdetection, pytorch, scikit-learn,
 VLM, NVidia Metropolis, Ollama
- Dev** | python (numpy, matplotlib, scipy, pandas, flask),
 C++, JS(react), SQL, opencv, git, gstreamer, CUDA, gRPC
- Ops** | docker, jenkins, CI/CD, ELK, ansible
- Processes** | agile, Continuoue Delivery, TBD

LANGUAGES

- | | | |
|---------|------------|--------|
| Russian | native | |
| English | fluent | C1-CAE |
| French | fluent | C1 |
| Chinese | elementary | HSK3 |
| Spanish | elementary | A2 |

PUBLICATIONS

1. "Reinforcement Learning for Long-term Reward Optimization in Recommender Systems" — IEEE Region 8
 International Conference on Computational Technologies in Electrical and Electronics Engineering, SIBIRCON

OTHER EXPERIENCES

- Datamining and machine learning** — Conducted practical sessions during spring 2017 at NSU (in English)
- Introduction to reinforcement learning** — Conducted a course during spring 2019-2020 at NSU (in English)
- ML and DL mentoring of 40 students at SkillFactory (2019-2020)
- Introduction to RL (instructor) Armenian code academy 2021

OTHER CENTERS OF INTEREST

reading, computer games, gym, chess, second brain, latin dances (salsa, bachata, kizomba), @MamboConSabor