

Igor Davidyuk

Deep Learning Engineer, Software Engineer

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Haifa, Israel

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PROFILE

Summary: Over 5 years of practical experience in Python and Deep Learning
More than 12 years of research experience in academia and industry

Programming: Python

Technology: Pytorch, OpenCV, Numpy, grpc

Languages: English, Russian

EXPERIENCE

AI Frameworks Engineer

Intel

Haifa, Israel

Sep. 2020 - Present

- Developing OpenFL – an open-source framework for Federated Learning
- Working on privacy-preserving features e.g., training in SGX enclaves, workload encryption, securing communication
- Created several Federated Learning showcases and tutorials
- Researching novel aggregation methods for deep convolutional networks

Data Scientist

Intelligichain

Nizhny Novgorod, Russia

Oct. 2019 - Sep. 2020

- Designed and implemented parts of cognitive surveillance system tolerable to faulty DCNs predictions
- Worked on a parking lot supervision system construction: vehicle detection, parking lot occupation control, license plate recognition
- Developed surveillance camera-embedded AI applications.

Research Assistant

Budker Institute of Nuclear Physics

Novosibirsk, Russia

Sep. 2011 - Sep. 2019

- Worked on infrastructure upgrades and maintenance of Novosibirsk Free Electron Laser
- Presented the results of research in oral and poster talks at numerous international conferences on physics
- Authored several research papers that were published in peer-reviewed journals

EDUCATION

Master of Science in Accelerator Physics

Novosibirsk State University

Novosibirsk, Russia

Sep. 2013 - Jun. 2015

Bachelor of Science in Physics

Novosibirsk State University

Novosibirsk, Russia

Sep. 2009 - Jun. 2013