



Mikhail Pedus
pmikhailmail@gmail.com
github.com/MikhailPedus
Address

Kalinigrad
Russia

Mikhail Pedus

Deep Learning Software Engineer

About Me

- Have 10 years of experience in IT industry, software development in computer vision/neural networks algorithms field
- Able to:
 - communicate with international and world-distributed project team.
 - work independently and part of team.
 - communicate in English (intermediate) and Russian (native)

Education

2010 - 2016, NORTH-CAUCASUS FEDERAL UNIVERSITY

master of Computer Science

Experience

Nov 2019 - present, AI Framework Developer, Intel

Responsibilities:

- Development of the **VPUX plugin** for **OpenVino framework**:
 - Neural network compiler (using LLVM/MLIR):
 - * Adding new functionality (new layers/hardware features support)
 - * pre-silicon validation of modern VPU's
 - Runtime:
 - * Adding new kernels/layers support on runtime side

Detailed achievements:

- Learned how:
 - Vision Processing Unit works on hardware level
 - neural networks works on low-level
 - neural networks compilers works
 - VPU runtime works
- Participated in the creation/development of the framework for pre-silicon validation:
 - Responsible for ensuring that all hardware features of VPU, which supported by hardware, are tested on pre-silicon stage

Oct 2018 - Oct 2019, Software developer, Kalashnikov Concern

Responsibilities:

- Computer vision algorithms development.

Detailed achievements:

- Developed a biometric identification algorithm for **biometrical scanner**. Based on palms veins pattern matching

Nov 2017 - Oct 2018, Software developer, Videomatrix

Responsibilities:

- Computer vision algorithms development.

Detailed achievements:

- Developed an application/algorithms for **video analytics**. The system recognizes an objects in frame, monitors the appearance and behavior.

Aug 2012 - Jul 2016, Software developer, MMC-Electronics

Responsibilities:

- People counting algorithms development.

Detailed achievements:

- Developed and was supporting an algorithm for **bus onboard passenger counting system**



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Soft Skills

- Have good analytical/problem-solving skills, self-initiative and fast to learn new skills/technologies, resourceful, committed, and smart-worker

Software Development Skills

Programming

- C++
- SQL
- DeepLearning
- OpenCV
- Linux
- CMake
- Compilers
- LLVM
- Git
- Python
- OpenVino

Interests

Professional

neural networks, computer vision, virtual/augmented reality, self-driving car

Personal

Gym, cooking, playing the guitar, hiking