Mikhail Pedus
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Address

Kaliningrad
Russia

Mikhail Pedus

Deep Learning Software Engineer

About Me

- 10 years of experience in IT industry, computer vision/neural networks algorithms development
- communication with international and global-distributed project team in English (intermediate) and Russian (native)
- ability to handle a variety of tasks and projects independently
- team-work skills

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 development (using LLVM/MLIR):
    * Adding new functionality (new layers/hardware features support)
    * pre-silicon validation of modern VPU's
  - VPU Runtime development:
    * Adding new kernels/layers support

Detailed achievements:

- Learned:
  - Vision Processing Unit perfomance
  - neural networks perfomance on deep level
  - neural networks compilers perfomance
  - VPU runtime
- Partisipated in the creation/development of the framework for pre-silicon validation
- Ensured all hardware features of VPU are tested on pre-silicon stage

Oct 2018 - Oct 2019, *Software developer,* Kalashnikov Concern

Responsibilities:

- Computer vision algorithms development

Detailed achievements:

- Developed a palms veins pattern matching algorithm for biometrical scanner

Nov 2017 - Oct 2018, *Software developer,* Videomatrix

Responsibilities:

- Computer vision algorithms development.

Detailed achievements:

- Developed an application/algorithms for video analitics. 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 provided support for an algorithm bus passenger counting system

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Soft Skills

- 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