



Mikhail Pedus

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github.com/MikhailPedus

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Address

Lucan

Ireland

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

Experience

Nov 2022 - Present, AI Framework Developer, Intel RnD Ireland Ltd

Contact info:

- Address: Ireland, Leixlip, Co. Kildare, Collinstown Industrial Park
- Phone/e-mail: (+353 1) 606 2996 / HR.Support.and.Services@intel.com

Responsibilities:

- Tech-leader of small team (2-3 developers)
 - Analyze voluminous tasks, make decomposition and an execution plan
 - Prioritize tasks and provide time estimations
 - Form and delegate clear tasks to teammates
 - Review PR's and provide feedback
- Development of the **VPUX plugin** for **OpenVino framework**:
 - Neural network compiler development (using LLVM/MLIR):
 - * Adding new functionality (new layers/hardware features support)
 - * Adding support of new VPU generations
 - * pre-silicon validation of modern VPU's
 - VPU Runtime development:
 - * Adding new kernels/layers support

Detailed achievements:

- One of the key contributors with personal area of responsibility:
 - creation/development of the framework for pre-silicon validation
 - ensured all hardware features of VPU are tested on pre-silicon stage
- Learned:
 - Vision Processing Unit performance
 - neural networks performance on deep level
 - neural networks compilers performance
 - VPU runtime

Nov 2019 - Nov 2022, AI Framework Developer, Intel

Contact info:

- Address: Russia, Nizhnii Novgorod, Turgeneva 30
- Phone/e-mail: +7 495 641 45 00 / bhr.russia@intel.com

Oct 2018 - Oct 2019, Software developer, Kalashnikov Concern

Contact info:

- Address: Russia, Krasnodar, Putevaya 11
- Phone/e-mail: +7 861 200 95 71 / v.a.feshin@kalashnikovconcern.ru

Responsibilities:

- Computer vision algorithms development

Detailed achievements:

- Developed a palms veins pattern matching algorithm for **biometrical scanner**



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Nov 2017 - Oct 2018, Software developer, Videomatrix

Contact info:

- Address: Russia, Ekaterinburg, Gorkogo 63
- Phone/e-mail: +7 343 204 73 30 / vmx@videomatrix.ru

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

Contact info:

- Address: Russia, Stavropol, Goleneva 21, office 161
- Phone/e-mail: +7 962 455 33 55 / mmce@mmce.ru

Responsibilities:

- People counting algorithms development.

Detailed achievements:

- Developed and provided support for an algorithm **bus passenger counting system**

Education

2010 - 2016, NORTH-CAUCASUS FEDERAL UNIVERSITY

master of Computer Science

Skills

Communication

- English (intermediate)
- Russian (native)

Soft

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

Hard

- 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