IHOR

MACHINE LEARNING ENGINEER

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PROFESSIONAL SKILLS

Caffe

Keras

Tensorflow

Pytorch

XgBoost

Numpy

Scipy

Matplotlib

Scikit-learn

CNN

LSTM

Python

C++

SQL

bash

OpenCV

PCL

Eigen

ROS

G2o

Gtsam

Ceres

Amazon AWS

Amazon Elastic Database

EXPERIENCE

MACHINE LEARNING ENGINEER
01.2019 – Present

PROJECT:
Developing ROS and ROS2 drivers for RGB-D camera.Integration with Rtabmap ROS SLAM. Integration with Cartographer ROS SLAM.
TECHNOLOGIES:
C++, ROS, ROS2, PCL, OpenCV

COMPUTER VISION ENGINEER
12.2016– 01.2019

PROJECT:
Developing simultaneous localization and mapping (SLAM) algorithm for autonomous vehicle. Fusion of visual and lidar information for more accurate estimation of robot position.
TECHNOLOGIES:
C++, python, OpenCV, PCL, ROS, Eigen, g2o, libpointmatcher
PROJECT:
Developing turn & break lights recognition algorithm for autonomous vehicle.
TECHNOLOGIES:
C++, python, numpy, OpenCV, ROS.
PROJECT:
 Developing human pose estimation algorithm based on deep learning technologies. Improving accuracy and speed of the model based on existing Neural Network.
TECHNOLOGIES:
python, Tensorflow, Pytorch, numpy, pandas, OpenCV

MACHINE LEARNING ENGINEER
02.2016– 12.2016

PROJECT:
Developing and applying computer vision algorithms and deep learning algorithms for automatic line of people detection in bank's departments. Created classification Deep Neural Network to classify image of department as having line of people or not, and object detection model to count number of people in department.
TECHNOLOGIES:
python, Caffe, Keras, numpy, sckit-learn, pandas.

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PROFESSIONAL SKILLS

- Python
- Git
- C++
- C
- OOP
- ML Algorithms
- UML
- Qt
- Assembler RH850
- TensorFlow
- Keras
- OpenCV
- Caffe
- PCL
- Octave/Matlab
- ROS
- CUDA

EXPERIENCE

MACHINE LEARNING ENGINEER
04.2015 – 02.2016

PROJECT:
Developing and applying computer vision algorithms and deep learning algorithms for defects detection in car's engine. Trained Deep Neural Networks for classification, analyzed their effectiveness, chose the best one for this task.
TECHNOLOGIES:
python, Caffe, numpy.

SOFTWARE ENGINEER
01.2015– 04.2015

PROJECT:
Application development for data science project as a full-stack developer. Developed parts of the project.
TECHNOLOGIES:
python, javascript, angular, pandas, numpy, postgres, d3.js

MATHEMATICAL ENGINEER
07.2013 – 01.2015

PROJECT:
development of model of gas recirculation in sintering furnace and its implementation in controller.
TECHNOLOGIES:
c++, Simatic WinCC, MsSql

EDUCATION

STATE UNIVERSITY OF TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV
PhD in Computer Vision

ZAPORIZHIA STATE ENGINEERING ACADEMY,
MASTER'S DEGREE IN PRODUCTION CONTROL OF AUTOMATED SYSTEMS

FOREIGN LANGUAGES SKILLS

ENGLISH LEVEL:
Upper-intermediate
UKRAINIAN LEVEL:
Native
RUSSIAN LEVEL:
Fluent

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