

# Ilia Moiseev

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<https://oxid15.github.io>

## Summary

Computer vision developer with good understanding of image processing fundamentals. Built CV projects from different areas using ML and classical methods as well. I am looking for a position, which can offer challenging problems and a team to grow along.

### - Experiences

- 10 month of experience as Computer Vision Developer in 3DiVi
- 1 year of experience as a programmer in SONDA

### - Skills

- Experienced in Python, have strong basis of C++
- Have advanced skills in ML - learning, validation, C++ inference
- Have knowledge of image processing fundamentals, published a number of scientific articles and blogposts on the subject
- Have basic skills in common computer vision frameworks: OpenCV, TF, Pytorch, etc.
- Familiar with software development technological stack and workflow - gitlab, CI, bash, linux

### - Career highlights

- Integrated own implementation of fully-connected network into existing fingerprint verification program on C++
- Built data-augmentation tool based on the extraction of depth-map from RGB-image
- Fine-tuned eye-detector and eye-wink classifier using augmentation, refined old pipeline
- Prepared and executed plan for addressing the problem of head angle calibration for embedded driver-monitoring system
- Have been maintaining project monitoring and identification of problems in internal product usage cycle

## Experience



### Computer Vision Developer

3DiVi Inc.

Jan 2021 - Aug 2021 (8 months)

Developed several projects using C++ and Python with a team, customer-oriented.

While working on one of the projects, independently developed and implemented solution for head-pose calibration problem.

With the same project implemented and maintained internal product usage cycle, which was used for customer-side issues identification.



### C++ Programmer

SONDA Technologies CJSC

Aug 2020 - Aug 2021 (1 year 1 month)

Integrated own implementation of neural network into existing C++ fingerprint verification system.  
Implementation was used only for inference: learning was performed in TF and then model was converted to custom format.  
Proposed solution decreased EER from 0.012 to 0.006.



## **Intern**

3DiVi Inc.

Oct 2020 - Dec 2020 (3 months)

While being at this role, I developed an isolated project in Python, did scientific research to identify most suitable solution and then use open-source implementation of it to produce deployable module.

## **Education**



### **ITMO University**

Master's degree, Big Data and Machine Learning

2021 - 2023



### **South Ural State University (SUSU)**

Bachelor's degree, Computer Engineering

Sep 2017 - Jul 2021

## **Skills**

Python (Programming Language) • C++ • Computer Vision • git • Image Processing • Machine Learning • Gitlab • bash • TensorFlow • OpenCV