FEDOR **IVACHEV**

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WORK EXPERIENCE

2017, JULY
PRACTICE AT SAMSUNG RND RUSSIA
Tizen development practice during 2 weeks of July

2018, JUNE – AUGUST
INTERN, SAMSUNG RND RUSSIA
Biometric AI Lab, 3D Avatar team. I implemented a new method of calibrating depth cameras & other things, which you can see in the recommendation letter.

EDUCATION

2012, 2013, 2014
STUDENT IN LKSH SUMMER PROGRAMMING SCHOOL
Succesfully graduated from stages C, B (algorithms) and P(industrial programming)

2015 - 2019
BACHELOR IN COMPUTER SCIENCE AT MOSCOW STATE UNIVERSITY
Department of Computational Algebra

PROJECTS

2018
WORDBEAVER: AN IOS APP FOR LEARNING NEW WORDS IN DIFFERENT LANGUAGES.
It is written in Swift, the vocabulary was received with Microsoft translate API and is stored in SQLite database. The app is still in beta and will be soon available at App Store:)

2017 - 2018
TIZENCAST: A PODCAST PLAYER FOR TIZEN OS
I have learned how to make web apps for Tizen OS during Samsung practice in 2017, and then applied my knowledge of Javascript Web apps development in here. The app reached top 10 in Tizen Store India and Indonesia, gaining 100k+ downloads during first month after release.
The source code can be found here: github.com/FedorIvachev/tianCast/

2018
CAR DAMAGE ASSESMENT: VEHICLE DAMAGE ASSESMENT BY PHOTO
This is a team project for insurance company Ingosstrakh. The app saves time of company workers by evaluating the car damage using neural network.

OLYMPIADS

- 2014 – All-Russian Olympiad of Programming
- 2016 – Yandex.Money hackathon, "The most technological project"
- 2018 – Russian Stage of Alimama International advertising algorythm competiton, 5th place

OTHER

- I am using Git since 2014 and was involved in many projects requiring teamwork
- Familiar with OpenCV, TensorFlow, Numpy
- Familiar with jQuery, HTML 5, CSS and SQLite.
- Writing regularly on Python, C++, Swift, JavaScript. Can understand Haskell code.
- English level is upper intermediate/advanced. Passed IELTS Academic several days ago and will provide the results soon.

September 6th, 2018

Recommendation letter for Fedor Ivachev

Dear Sirs,

It's my pleasure to recommend Fedor Ivachev as a good worker. Fedor successfully participated in an internship program at Samsung R&D Institute (SRR) this summer.

During the internship, Fedor worked on the task of calibrating RGB cameras, calibrating the time-of-flight depth sensor. He deeply enough understood classical methods for calibrating pinhole cameras. He implemented a depth sensor calibration method that takes into account only distance distortions, without taking into account object color-based distortions and distortions related to the different distances from optical center on depth frame.

Fedor helped us a lot in the gathering dataset of face movements during speech. He undertook the development of the design of facial markers and motions capturing setup including hardware and face makeup. Fedor also developed an algorithms for detecting different facial markers in a video stream. Within a short period of the internship, about ten possible layouts and designs of markers were tested, around 10 hours of video were captured in different configurations. In this work, Fedor showed himself to be an enterprising and hard-working person and brought many benefits to the project.

During the internship, Fedor got acquainted with the OptiTrack 3D tracking system. He made a demonstration of the possibilities of this system to capture the movements of the human skeleton, a hand, in a short time having understood the software of the system.

In general, Fedor left a good impression of himself, he brought a lot of benefits during 2 months of internship. I wish him every success and professional development.

Project Leader at Bio Recognition Lab,
Biometric AI Team,
Samsung R&D Institute Russia

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