

# Vsevolod Konyakhin

St. Petersburg, Russia

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## Education

### National Research University ITMO

2nd-year computer science & engineering student (BSc in Programming & Internet Technologies)

**Courses:** Algorithms & Data Structures, Calculus, Linear Algebra, Discrete Math, Object-Oriented Programming, Computer Architecture, Programming in C++, Database, Operating Systems, Computer Graphics, Physics

*St. Petersburg, Russia*

September 2018 - Present

GPA: 4.3/5.0

### Computer Science Center (JetBrains, Yandex School of Data Analysis)

Three-year Degree Program in Data Science and Software Engineering

**Courses:** Asymptotic Analysis & Probability Theory, Mathematical Statistics, Python Programming, Machine Learning, Deep Learning at YSDA, Algorithms & Data Structures, Self-Driving Cars

*St. Petersburg, Russia*

September 2019 - Present

### Lyceum "Physical-Technical High School" (PTHS)

High school degree (In-depth study of Mathematics, Physics, Computer Science, English)

*St. Petersburg, Russia*

September 2015 - June 2018

GPA: 4.5/5.0

## Skills

**Programming** Python, Swift, C++, Java, PyTorch, TensorFlow, NumPy, Pandas, OpenCV, SciPy

**Technologies** OOP, SQL, Git VCS, Unix/Linux, Docker

**Languages** English (Fluent), Russian (Native), German (Beginner)

## Experience

### JetBrains Research, Research Project

- Technologies:** Python, PyTorch, Git
- Working in a research team developing a computer vision deep-learning siamese-based model to take part in the upcoming visual object tracking challenge.

*St. Petersburg, Russia*

February 2020 - Present

### 3D4Medical, RELX Group

#### Machine Learning Engineer at RnD Department

- Technologies:** Python, TensorFlow, TensorFlow Lite, PyTorch, Swift, Git, CUDA, C++
- Developing deep-learning-based models for image classification, semantic segmentation, object detection using state-of-the-art algorithms in Computer Vision; turning recent papers into code with TensorFlow and PyTorch. Experienced in building, training and deploying deep neural networks both to the cloud and mobile devices; collecting and manipulating big datasets with crowdsourcing platforms, writing data pipelines.

*St. Petersburg, Russia*

July 2019 - February 2020

### Joint Advances Student School 2019

#### iOS Developer for Zeiss Medical

- Technologies:** Swift, iOS, UIKit, ARKit, Core Data, Git, Agile, Scrum
- Worked in an international team developing a medical iOS app in a short-time period. The project is considered promising so it is under strict NDA.

*Munich, Germany*

March 2019

### Winter mini-degree program in STEM (JetBrains, MIT)

- Technologies:** Python, ROS, OpenCV
- Built a shortest-path search and obstacles-handling algorithm for the self-driving bot in "Duckietown".

*St. Petersburg, Russia*

January 2019

### Peter The Great Polytechnic University, Research Project

- Technologies:** C++, V-REP
- Implemented a robot with a unique walking system. Built its simulation in V-REP, connected V-REP and the real robot to run walking algorithms simultaneously. The robot is patented.

*St. Petersburg, Russia*

December 2017 - April 2018