

# Ilya Skapenko

## Experience

- 2022.04 – Present **Software developer**, *TradingView* [www.tradingview.com](http://www.tradingview.com)  
Go, design and implementation of kubernetes operators, feature lead
- 2018.02 – 2022.03 **Software developer**, *SecurityScorecard* [securityscorecard.com](http://securityscorecard.com)  
Was responsible for implementing and maintaining Big Data processing pipeline, that handled hundreds of terrabytes daily.  
**Key achievements:**
- Multiple global and local pipeline performance improvements
  - Developed way to index custom file format for faster querying
  - Made file format language-agnostic. Added support for Python and Scala. Integrated with Apache Spark
- Used stack:** C++14/17, protobuf, bash, sqlite, scala, apache spark, python, aws s3, kafka
- 2020.03 – 2020.11 **Software developer**, *Inspera* [www.inspera.com](http://www.inspera.com)  
Implemented event-based audio, video and screen sharing processing in remote proctoring application.  
**Used stack:** C++14, webm, opus
- 2019.02 – 2020.03 **Robotics intern**, *Remy Robotics* [www.remyrobotics.com](http://www.remyrobotics.com), Barcelona, Spain  
During my internship had introduction with ROS ecosystem, tried to solve pickup problem with Reinforcement Learning and controlled UR5 robot.  
**Used stack:** ROS, Gazebo, Python, C++, Reinforcement Learning, UR5
- 2017.02 – 2018.02 **Embedded developer**, *ISOSCAN LTD* [r-call.ru](http://r-call.ru), Rostov-on-Don, Russia  
Was involved in bug fixing, Operation system configurating, creating build automation, code maintaining.  
**Key achievement:**
- Rewrote almost from scratch queue management system
- Used stack:** C++, RTOS, Qt, Python, Arch Linux
- 2016.06 – 2017.02 **C++ programmer**, *Esignal*, [www.esignal.com](http://www.esignal.com) Rostov-on-Don, Russia  
Maintaining of existing applications: refactoring, implementing new features, fixing bugs.  
**Used stack:** C++, boost

## Skills

### Professional

Go	<div><div></div><div></div><div></div><div></div></div>	Python	<div><div></div><div></div><div></div><div></div></div>
C++	<div><div></div><div></div><div></div><div></div></div>	Assembler (x86)	<div><div></div><div></div><div></div><div></div></div>
Scala	<div><div></div><div></div><div></div><div></div></div>		

### Languages

English: Upper intermediate (B2)  
Russian: Native

---

## Education

### University

- 2019.02 – 2020.03 **Harbour.Space**, *Barcelona, Spain*, Robotics
- 2015.09 – 2017.08 **Master. Southern Federal University**, *Rostov-on-Don, Russia*, Faculty of Mathematics, Mechanics and Computer Science, Fundamental Informatics and IT
- 2011.09 – 2015.08 **Bachelor. Southern Federal University**, *Rostov-on-Don, Russia*, Faculty of Mathematics, Mechanics and Computer Science, Applied Mathematics and Informatics

### MOOCs

- 2022.10 – 2023.03 **Software Architect**,  
<https://skillbox.ru/course/software-architect>
- 2016.07 – 2016.09 **Embedded Systems – Shape the World**,  
<https://courses.edx.org/courses/course-v1:UTAustinX+UT.6.03x+1T2016>
- 2013.09 – 2013.11 **Quantum Mechanics for Scientists and Engineers**,  
[https://lagunita.stanford.edu/courses/Engineering/QMSE01/Quantum\\_Mechanics\\_for\\_Scientists\\_and\\_Engineers/info](https://lagunita.stanford.edu/courses/Engineering/QMSE01/Quantum_Mechanics_for_Scientists_and_Engineers/info)
- 2013.06 – 2013.09 **Computer Networks**,  
<https://www.coursera.org/course/comnetworks>
- 2013.04 – 2013.06 **The Hardware/Software Interface**,  
<https://www.coursera.org/course/hwswinterface>

---

## Public Activity

### Speaking

- 2017.04 **LLVM. Code compaction**, *PLC-2017*, Rostov-on-Don, Russia, Southern Federal University,  
<https://elibrary.ru/item.asp?id=29098144> [rus]