Rostov-on-Don, Russia
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Year of birth: 1993

Ilya Skapenko

Experience

2023.05 – 2024.08   **Software developer**, *HelixMarkets* `www.helixmarkets.io`
C++, Go, kubernetes, redesign exchange to work in cluster, design and implement new features/components.

2022.04 – 2023.05   **Software developer**, *TradingView* `www.tradingview.com`
Go, design and implementation of kubernetes operators, feature lead

2018.02 – 2022.03   **Software developer**, *SecurityScorecard* `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`
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`, 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`, 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` *Rostov-on-Don, Russia*
Maintaining of existing applications: refactoring, implementing new features, fixing bugs.
Used stack: C++, boost

Skills

Professional

C++	███	Kubernetes	██░
Go	██░	Assembler (x86)	█░░
Python	█░░		

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

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]