

## Contact

[www.linkedin.com/in/andrey-smetanin](http://www.linkedin.com/in/andrey-smetanin) (LinkedIn)

## Top Skills

Linux  
Software Development  
Software Engineering

## Languages

English (Professional Working)

## Publications

Mathematical model and efficient algorithm to find and distribute data in the decentralized distributed file system.

Group of processes online migration between nodes with Windows operation system.

Using of programmable graphics processors in the data storage problems.

# Andrey Smetanin

Lead Software Developer at Group-IB - Intelligence-driven Cyber Security

Moscow, Russian Federation

## Summary

Software engineering and development in C/C++/Golang.

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## Experience

### Group-IB - Intelligence-driven Cyber Security

Lead Software Developer

December 2017 - Present

Moscow, Russian Federation

EDR (endpoint detection and response) cyber-security agent research, design and development for both Windows and Linux kernels(platforms). Implemented high speed low latency security events gathering, processing and transmission to server pipelines includes implementation of various caching, compression, deduplication algorithms and data structures. Implemented process, thread, image load, registry, network, file-system event filters. Analyzed and tuned performance a lot to pass cpu, memory, disk i/o constraints even on slow/small desktop computers.

### Yandex

Software Engineer

October 2016 - December 2017 (1 year 3 months)

Moscow, Russian Federation

Yandex Cloud:

Local block storage service development.

### Acronis

Senior Software Developer

March 2016 - September 2016 (7 months)

Moscow, Russian Federation

Windows kernel file-system filters drivers development.

### Virtuozzo

Senior Software Developer

June 2015 - February 2016 (9 months)

Moscow, Russian Federation

Virtuozzo (Virtual Machines Hypervisor unit):

Windows Hyper-V VMBus host devices inside KVM/QEMU development.

## Parallels

Senior Software Developer

August 2006 - June 2015 (8 years 11 months)

Moscow, Russian Federation

Parallels Cloud Server (Containers for Linux unit):

Linux kernel block storage development

Parallels Virtuozzo Containers for Windows:

Windows kernel containers development

Parallels Desktop for Mac:

VMM/Guest OS debugger development

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## Education

Moscow Institute of Physics and Technology (State University)  
(MIPT)

PhD student, Distributed decentralized file systems · (2009 - 2012)

Moscow Institute of Physics and Technology (State University)  
(MIPT)

Master's degree, Applied mathematics and applied physics · (2003 - 2009)