# Nikolay Zhuravlev

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## Skills

- **Operating systems:** Linux, Windows
- **Languages:** C++, Python, Perl, JavaScript, Java, SQL, PHP, HTML, CSS
- **Data processing:** MapReduce, Hadoop
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Networks:** TCP/IP, ISO OSI, switching, routing, application level protocols
- **Maintenance different UNIX software:** Linux OS (Debian, Ubuntu), nginx, docker, bind, openvpn, apache, exim, squid, openvz.
- **Other:** git, agile development, software architecture, design patterns.

## Languages

- Russian (native)
- English (intermediate)

## Experience

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*Search Infrastructure Team Lead* — **Yandex.Market**    Jan 2021 – present

Leading infrastructure team :)

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*Search backend developer* — **Yandex.Market**    Jan 2015 – Dec 2020

Different features of Yandex.Market search runtime backend
Optimization and refinement of the infrastructure and the search engine Yandex.Market

C++, Python, MapReduce, svn, git

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*Software engineer* — **Yandex Search, Data preparation team**    Sep 2012 – Jan 2015

Make large amount of unstructured data be ready for search indexer.
Aggregating data from social networks, extracting from them a useful signal for searching.

C++, Python, MapReduce, svn, git

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*Teaching assistant* — **Department of Math and Mechanics, Ural Federal University**    Oct 2006 – Jul 2017

Teaching courses: Operating systems, Networks, Script Languages (Python, Perl), Software Engineering, Practical security

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*Software engineer* — **RYDLAB**    Jun 2011 – Aug 2012

Objective-C for iOS. Backend for comfortable using WebSockets and other backend
Testing Suricata to satisfy our requirements (first of all performance testing, but not only). A couple of small projects with Python and Django.

Python,  Objective-C for iOS,  Testing Suricata

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*Software engineer* — **Ideco Software**   Jul 2010 – Jun 2011

Developed Data Leak Prevention (DLP) module from scratch, which can scan HTTP and SMTP traffic for restricted documents and block their transmission.

Python, C, MySQL, Firebird DB, PHP, Squid, Postfix.

*IT system administrator* — **Ural State Academy of Architecture and Arts, IT department**   Sept 2005 – Oct 2006

UNIX and Windows maintenance: Apache, Apache Tomcat, qmail, bind, AD

*IT system administrator* — **Russian academy of science, Ural branch, Institute of solid state chemistry**   Sept 2003 – Sept 2005

# Other activities

**Security enthusiast**

Member of HackerDom team. Got prizes from many CTF contests (iCTF 2007 (3 place), iCTF 2008 (4 place), CIPHER 2009 (2 place)

**CTF contest developer**

HackerDom has it own CTFs – RuCTF and RuCTFE. From 2005 I have been devteam leader and chief newtork administrator for many times (not all of RuCTFs, but the most of them). During this period RuCTF(E) has grown from small regional CTF to big CTF with 79 teams from all over the country (RuCTF 2012) and international CTF with 99 teams (RuCTFE 2011) from all over the world.

# Education

**Master of Mathematics & Computer science** — Institute of Mathematics and Computer Science, Ural Federal University   2008 – 2009

Thesis title: The language for description and automatic network configuration

**Bachelor of Mathematics & Computer science** — Institute of Mathematics and Computer Science, Ural Federal University   2003 – 2007

Thesis title: Regular expressions computational complexity

# Professional interests

- Compilers & programming languages
- System programming
- Architecture
- Networks