



## NetStream

*Chief Technical Officer (Lead Developer)* **October 2005 – April 2009**

- Hiring team, managing development process, teaching, lead developer.
- Customer relations, building requirements, quality control, project planning.
- Projects: **Smotri.Com** (custom skins, API), **DELit.Net**, **AudioFind.Ru**, **Yanga!**, **MediaRight**.
- MDC Instant Messenger **MDC**: server-side (Python, Twisted) and client-side (C++, Qt) parts.
- NetStream Media Server **NMS** (pyFMS): **Flash broadcasting server (RTMP)** with relaying support (much like Adobe FMS).
- **SpamFighter**: web service for spam and other unsolicited content filtering in real-time.

## Moscow State University

*Instructor* **July 2004 – May 2008**

- Faculty of Computational Mathematics and Cybernetics
- Practical course for 2nd year students, including: C/C++, formal grammatics, parallel process programming in UNIX and object-oriented programming concepts.
- Took part in software development concerning Data Mining.

## NetStream

*Web Developer/System Administrator* **January 2003 – September 2005**

- Design, development and operations for projects: **DELit.Net**, **AudioFind** and others.
- Going full-stack from coding up to hardware.

## eHouse

*Web Developer/System Administrator* **February 2001 – June 2003**

- Projects: **Damochka** (dating and entertainmnet service), **RMP** (music service), **InOut** (shop/cinema/restaraunt catalog), **BannerBank** (advertising banner meta-network)
- Full-text search engine *pointer* (like today's "sphinx").
- Apache module rendering city maps over HTTP (like eAtlas, Google Maps).
- "Artificial intelligence" module ("Boltun") for Damochka project.

## Institute of philosophy, RAS

*System Administrator* **January 2000 – January 2001**

- Internet gateway support and other network services (UUCP, sendmail, Apache, etc.)

CONFERENCE  
TALKS

[Budapest Devops Meetup Nov 2013: My DevOps Experience and Projects](#)

CONFERENCE  
TALKS (IN  
RUSSIAN)

[Devops Meetup Moscow Jan 2013: aptly - Debian repository management](#)

[Stachka and RIT++ 2013: Effective teamwork](#)

[HighLoad++-2010: High-performance application development using Twisted/Python](#)

RIW-2009: Caching in Web

HighLoad++-2009: Twisted – asynchronous network framework on top of Python

HighLoad++-2008: Web, caching and memcached

RIT-2008: Flash broadcasting server (RTMP) written in Python or high-performance network services in Twisted

RIT: High Load-2008: Videocontent delivery to end-users

## OPEN-SOURCE PROJECTS

**aptly**: Debian repository management system.

**Redis Resharding Proxy**: Redis re-sharding without service interruption.

**txZMQ**: ØMQ driver for Twisted.

**SpamFighter**: web service for spam and other unsolicited content filtering in real-time (for web applications).

**FMSPy**: RTMP server written in Python using Twisted Framework.

Other open-source activity at **GitHub** and **Launchpad**.

## EDUCATION

### Moscow State University

Ph.D. student, Faculty of Computational Mathematics and Cybernetics 2004-2008

- Adviser: Professor Igor V. Mashechkin
- Area of study: high-performance computations
- Thesis proposal: *Automatic checkpoint placement in MPI programs*

M.S., Faculty of Computational Mathematics and Cybernetics, 1999-2004

- Department: Computer Systems Architecture
- *Magna cum Laude*
- Specialization: applied mathematics and system programming
- Thesis topic: *Research and implementation of checkpointing subsystem for parallel programs in message-passing environments*