Andrey A. Smirnov

CONTACT INFORMATION	*Mobile:* +7 (926) 172-4320	Bogdanova st., 2k1, 241
	E-mail: me@smira.ru	Moscow 119618, Russia
	WWW: www.smira.ru	
	Twitter: @smira	*Skype:* smirnov.andrey

CITIZENSHIP Russia

BIRTHDAY Apr 28th, 1982

OBJECTIVE Create remarkable service, application or technology. Improve my skills and improve quality of software. Develop product that is useful.

TECHNICAL SKILLS Development team leadership: gathering requirements, writing technical documentation, building up a team, establishing development process, quality control, testing and deployment, configuration and support.

Experience in software development from backend code up to client-side, creating and implementing architecture for scalable and high available systems.

Programming languages: C/C++, Python, Go, Ruby, PHP, JavaScript. Some others: Pascal, Perl, UNIX shell scripting, Prolog, Assembler, ...
Frameworks: Twisted, Ruby on Rails, Boost.

Some keywords: PostgreSQL, MySQL, MS SQL; memcached, Redis, MemcacheDB; ØMQ, beanstalkd, RabbitMQ; Linux, FreeBSD; Chef, Zabbix.

PROFESSIONAL EXPERIENCE

Independent Developer	**November 2013 –**

- Developing "the next big thing"in DevOps.

Skype/Microsoft

Product Engineering Manager	**January 2011 – October 2013**

- Team leadership: managing async communications backend development.
- Architecture, design, specifications, communication with product team.
- Devlopment of fault-tolerant and high available backend system.
- Operations, infrastructure: monitoring, configuration management, distributed logging, etc.
- Launch of Skype Video Messaging feature.

Qik

Web Team Lead	**May 2009 – December 2010**

- Development manager, building up effective team, establishing transparent development process.
- **Qik.com**: website, client API; metadata storage and processing; scalability. Website redesign and huge code refactoring.
- **Qik Push Engine**: delivery of object changes in real-time; subscription for filtered streams with complex conditions; managing notifications delivery in social graph.

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).
- "Artifical 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 amd 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

aplty: 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-peformance 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*