

Dmitry Dvoynikov
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Ideal position:

Software architect/developer in enthusiastic team of professionals on challenging projects in scalable distributed systems, reliable, highly available, fault-tolerant, secure systems, software systems evolution, psychological, ethical and social aspects, human-machine interaction.

Experience:

13 years of programming for money + 8 years of programming for fun, started in 1988 at age 12.

Education:

BS in mathematics, graduated in 1998 from the Urals State University, Ekaterinburg, Russia

Employment history:

- 2009- present Lead software developer, Informational Systems, Ekaterinburg, Russia
Design and develop home online banking solutions and related security products, integration of various banking systems for customers.
- 2004- 2009 Lead software developer, Commercial Bank "Severnaya Kazna", Ekaterinburg, Russia
Design and develop proprietary online banking system and related security products, integration of various in-house banking systems.
- 2006 Remote consultant/contractor, ScriptLogic Inc, USA
Design and develop product for tunneling TCP through HTTPS, later part of the Desktop Authority product.
- 2001- 2004 Lead software developer, Center for Informational and Financial Technologies, Russia
Design and develop proprietary remote banking system, data management and OLAP platform, stock accounting system.
- 2000- 2001 Software developer, SSI Micro, Canada
Design and develop software for remotely controlling various hardware such as satellite networking equipment, build web sites for customers.
- 1998- 2000 Software developer, Commercial Bank "UralVneshTorgBank", Ekaterinburg, Russia
Integration of various in-house banking systems, building interactive bank web site.
- 1996- 1997 Database developer, State Center for Cultural Heritage Protection, Ekaterinburg, Russia
Develop database application for working with information on archaeological monuments.

What I do:

In short, I work to deliver products.

My primary responsibility is to design and develop software, but I also do whatever it takes:

- talk to customers to help clarify their requirements, study business rules and regulatory documents to comply with, learn new things, then propose and elaborate solutions;
- pick hardware and software, install, build and configure, troubleshoot and make it all work, then administer the installed network, hardware and software;
- design software architecture;
- set up project environment and rules;
- write code and tests, debug and deploy;
- talk to end-users for support and feedback.

Then I learn from experience and start over.

Tools I use the most:

Windows/Win32 API, FreeBSD
Python, C++/STL/boost, Delphi
PostgreSQL, MS SQL Server, SQL/PLPGSQL/T-SQL
TCP/IP, WinSock/Berkeley sockets, standard application-level protocols
HTML, CSS, JavaScript, jQuery, Ajax, XML, XPath

Other things I used in a project:

Linux (CentOS), Oracle, MS Access, MySQL, C, Visual Basic, Java, x86 assembler, Pascal, COM, ATL, ADO, ADOX, JMS, IIS, ISAPI, XSLT, OpenSSL, all kinds of 3rd-party libraries, proprietary network protocols for various financial software such as banking systems, payment gateways, plastic card processing systems or hardware such as cash dispensers, various Russia-specific cryptographic software and hardware

What kind of projects I work on:

- Network services to run unattended forever, complex multithreaded multi-user software.
- Integration of systems in corporate networks, essentially integration middleware.
- Information security. Application security. Network security. Cryptography. Usability of security.
- Database performance tuning and optimization.
- Embedded zero-maintenance application platforms.
- Usable end-user GUI applications for the above kind of systems, standalone or web-based.

Public open source projects (download and see for yourself):

2005- Pythomnic3k
present Python 3 framework for writing integration middleware in SOA architecture
<http://www.pythomnic3k.org>

2006- Secure FreeBSD CD
present Minimal bootable FreeBSD CD for use as firewall or HTTP load balancer
<http://www.targeted.org/secure-cd.html>

2003- Green Mail Filter
2005 Anti-spam e-mail server extensible with rules in Python
<http://www.targeted.org/green/>

2001- Nest
2005 Point-to-point IP VPN daemon for FreeBSD
<http://www.targeted.org/nest/>

1999- HTTPPort, HTTHost
2004 Client-server pair of applications for secure tunneling TCP through HTTP
<http://www.htthost.com>

1996- Opaque
1998 Sample file compressor for MS DOS
<http://www.targeted.org/files/opaque.zip>

Personal:

Pro's: Perfectionist, dedicated, enthusiastic, analytical way of thinking, thorough, attentive to details, fluent, flexible, eager to learn, can work really hard on something that looks interesting.

Con's: Perfectionist, skeptical, sarcastic, lose interest unless progress is visible.