

Sorin OSTAFIEV

Personal details

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Citizenship: Romanian



Employment history

- **Co-Founder**, March 2005 - Present
BITGROUND Software (www.bitground.com)

projects:

- **HELICSwIn.Net** (*client: European Dynamics - www.eurodyn.com; 6 months, team of 2 people; VB.NET, MS Access database, .NET Framework 4.0, TFS*)
HELICSwIn.Net is a tool developed for manual entry of data collected during the ECDC (European Centre for Diseases Prevention and Control - ecdc.europa.eu) Point Prevalence Survey of healthcare-associated infections and antimicrobial use in acute care hospitals.
I was responsible for fixing the bugs in the existing application version, developing the new version and migrate the existing data. I was also responsible for analyzing, designing and implementing additional functionalities to the project, export the data for The European Surveillance System (TESSy - tessy.ecdc.europa.eu) and create packages to be distributed for installation to the acute care hospitals.
- **Time management** (*client: European Dynamics - www.eurodyn.com; 2 months, individual work; ASP .NET, C#, MS SQL Server 2008, .NET Framework 4.0, IIS 7, Active Directory, jQuery, Telerik ASP.NET AJAX, HTML, CSS, JavaScript, Windows services, TFS*)
The time management application is a tool used internally in the organization to track the time and budget spent on IT projects.
I was responsible for developing the application, testing and deploying it.
- **Walnote** - www.walnote.com (*company own project; 6 months, individual work; ASP .NET, C#, .NET Framework 4.0, zkBox, IIS 7, HTML, CSS, jQuery, AJAX, JavaScript, Web services, Subversion*)
Walnote is a tool designed to store perfectly safe your notes online. It's a fast, reliable and secure client application, running in the user's browser, built on top of [zkBox](http://zkbox.com).
I was responsible for everything related to the Walnote product from idea to conception. Responsible for the business strategy, market analysis, technical analysis, design, development, testing and deployment.
- **zkBox** - www.zkbox.com (*company own project; 12 months, individual work; ASP .NET, C#, MS SQL Server 2008, .NET Framework 4.0, Amazon Web Services, IIS 7, XML, HTML, CSS, jQuery, AJAX, JavaScript, Windows services, Web services, SOAP, Subversion*)
zkBox stands for "Zero-Knowledge Box" and it's a distributed service featuring a Zero-Knowledge authentication mechanism on top of a Host-Proof storage solution designed to hold completely secure, reliable and anonymously your highly sensitive data.

The service is approaching in a different way the concept of handling user's private data: the data is stored in encrypted form using the user's private key that it's never sent to the server. In this way not even the zkBox staff is able to read the user's data. zkBox can be deployed in various scenarios for public or private usage; the public hosted installation from api.zkbox.com is running in the [Amazon cloud](#) being highly scalable and having the data reliable stored by using the [Amazon Web Services](#). I was responsible for everything related to the zkBox product from idea to conception. Responsible for the business strategy, market analysis, technical analysis, design, development, testing and deployment in a high availability setup.

- **EWRS** - ewrs.ecdc.europa.eu (*client*: European Dynamics - www.eurodyn.com; 24 months, team of 2 people; ASP .NET, C#, MS SQL Server 2008, .NET Framework 4.0, IIS 7, Active Directory, Clustering, jQuery, Mobile, XML, XSL, HTML, CSS, JavaScript, TFS)
Early Warning and Response System (EWRS) is a part of the network for the epidemiological surveillance and control of communicable diseases. The system allows for immediate exchange of views on risk assessment and risk management crucial for timely public health action. The system is used in the context of communicable diseases threats and it is a web-based system linking the Commission, the public health authorities in Member States responsible for measures to control communicable diseases and the European Centre for Diseases Prevention and Control ([ECDC - ecdc.europa.eu](http://ecdc.europa.eu)).
I was responsible for fixing the bugs in the old application version, for designing and implementing new functionalities and launching the application. Afterwards, I was responsible for maintaining it and performing additional developments. This includes testing the application in the test environment, promptly identify potential issues and provide solutions for them, perform database tuning or prepare additional deployment environments. I was also responsible for designing and developing the version for mobile devices, writing technical and support documentation, developing the administering module and porting the application to the newer technologies. Also responsible for designing the application for enterprise environment, conducting the deployments in production together with the ICT team in a high availability setup and preparing training material for end users.
- **Teamness** - www.teamness.com (*company own project*; 9 months, team of 2 people; ASP .NET, C#, MS SQL Server 2005, IIS 6, .NET Framework 3.5, XML, XSL, HTML, CSS, jQuery, AJAX, JavaScript, Windows services, Subversion)
Teamness is a highly interactive web application intended to help teams organize projects data and share it with colleagues and clients. Some of the main features are: assign tasks and attach messages to them, manage and share files and whiteboards, set milestones correlated with tasks, create groups to gather similar data, use RSS feeds to watch project's activities, invite clients to watch the progress, customize the look and feel of the private space, multi-lingual interface.
I was responsible for everything related to the Teamness product from idea to conception. Involved in the business strategy, market analysis, technical analysis, design, development, testing and deployment.
- **Newsberry** - www.newsberry.com (*client*: Wildbit LLC - www.wildbit.com; 4 months, team of 3 people; ASP .NET, C#, MS SQL Server 2005, IIS 6, .NET Framework 2.0, XML, XSL, AJAX, Windows services, Web services, CVS)
Newsberry is a web-based email marketing system built for individuals and companies. It allows anyone to easily create and send highly targeted and professional looking email campaigns to large subscriber lists. The system features robust reporting, subscriber management, scheduling, content management, and effective deliverability tools.
Responsible with analysis, feature proposals, design, developments and launching the application (it was about 60% done when involved).
- **Xyleme Server** (*client*: Xyleme Inc. - www.xyleme.com; more than 10 people; Linux, C/C++, Java, Corba, Bugzilla)
We were involved, along with an international team, in developments for the version 3.5 of Xyleme Server. The product is a distributed XML database solution and is used by enterprise costumers all over the world. Our work was mainly comprised of a dump and reload module, Tibco Rendezvous and Tibco EMS dispatchers.

- **Software Design Engineer,** February 2004 - March 2005
Team Code Romania S.R.L. (www.teamcode.net)

projects in which I was involved within the company:

- **CBTnet** (about 250 days man, team of 2 people, Windows XP, MS IIS 5, MS SQL Server 2000, ASP .NET, C#, VSS)
We developed a web-based solution for managing students and various information related to them. Application is used in classes from schools spread across the country featuring administration and student examinations.
- **ALICS** (about 200 days man, team of 2 to 3 people, Windows XP, MS SQL Server 2000, Visual Studio .NET, C#, Crystal Reports, VSS)
We developed a complete inventory control system. Application is used in warehouses featuring purchase orders, users and items management.

- **Software Design Engineer,** July 1999 - February 2004
Softwin S.R.L. Romania (www.softwin.ro)

projects in which I was involved within the company:

- **DGPAG** (about 1100 days man, team of 6 to 8 people, Windows 2000 Server, MS IIS 5, MS SQL Server 7, FoxPro, MS Visual Studio .NET, C#, Crystal Reports, VSS)
We developed a prisoners management system. Application is used in penitentiaries all over the country using distributed databases and three tier design.
- **MIS** (about 900 days man, team of 5 to 6 people, Windows 2000 Server, Visual C++, MFC, DirectX, VSS)
Application used to simulate flying coordination for controllers training.
- **Hearst** (about 500 days man, team of 1 to 3 people, Visual C++, MFC, Acrobat SDK, MS SQL Server, VSS)
We developed an application designed to provide semi-automatic data extracting from PDF files representing electronic catalogs and insert data into database featuring users and document management.
- **xPanda** (about 800 days man, team of 2 to 4 people, Visual C++, MFC, Perl, Acrobat SDK, VSS)
We developed an application designed to provide automatic document conversion from PDF files to an internal XML with CSS file. Then, through some Perl scripts, those files can be converted to OEB 1.0, XML (custom DTD) or various versions of HTML.
- **AirGTI** (about 1200 days man, team of 3 to 5 people, Visual C++, MFC, VSS)
We developed a database modeling system using SGML technology for a large application for Boeing. Access to SGML databases through ODBC (SFQL driver - compatible SQL).
- **TwinTerm** (about 100 days man, team of 1 to 2 people, Visual C++, MFC)
Implementation of a telnet passive terminal in a C++ application (TCP/IP, IPX/SPX and Direct Connection communication) for a Prologue server.

- **Teaching Assistant,** Spring 2003, Spring 2002
"Politehnica University" of Bucharest, Computer Science Faculty, for "Real Time Systems Programming". Professor: Adina Magda Florea

Personal projects

- **Using genetic algorithms for problem-solving through evolution and co-evolution**
(Master thesis, Summer 2003)
- **Fast Intranet searching** (Diploma project, Summer 2002)
- **Intranet File Sharing**
About 200 days man, individual work, Visual C++, MFC, ISAPI and MS SQL Server.
I developed a complete suite for locating resources in a local area network featuring high speed information retrieval, providing tools for indexing and storing information into database,

an ISAPI filter for data retrieval, browser integration, administration of the system and statistics and monitoring tools.

Project "Intranet File Sharing" is located at www.ostafiev.com/ifs/.

- **ImgEdit**

This is an image processing application. ImgEdit is a pluggable application, very extensible, featuring color adjustment, operations between two images, various filters, image rotation and many more.

Most of my projects are located at www.ostafiev.com/downloads/.

Key Skills

- programming languages (C#, C/C++, Visual Basic, PHP, Java, Perl, Python, Pascal)
- development environments (Visual Studio .Net, Visual C++, Borland C++, GNU C)
- operating systems (Windows (all versions), Linux, SunOS, Dos)
- cloud computing design (Amazon Web Services: Amazon Simple DB, Amazon S3, Amazon EC2)
- experience in OOP design/programming
- modeling tools (Rational Rose)
- modeling languages (UML)
- technologies (.NET Framework 2.0/3.5/4.0, SharePoint, LINQ, SOAP, Ajax, XML, XSL, ActiveX, ATL, COM, Corba, TCP/IP, sockets)
- development for mobile devices
- network administration (Windows NT/2000/2003/2008, Linux, Novell)
- web servers (MS IIS 6, MS IIS 7, Apache)
- web design (HTML, CSS, CGI, PHP, Perl, JavaScript)
- databases (T-SQL - MS SQL Server 2000/2005/2008, MySQL, PL/SQL, MS Access)
- issue tracking tools (Team Foundation Server - TFS, Bugzilla)
- source control systems (Team Foundation Server - TFS, Visual Source Safe - VSS, Subversion, CVS, Mercurial)
- libraries and APIs (jQuery, Telerik ASP.NET AJAX, STL, MFC, Windows GUI and SDK, Seagate Crystal Reports, zkBox, Acrobat SDK, OpenGL, SNMP)

Education

- **Ph.D. Student** (fall 2003, not finished), "Politehnica University" of Bucharest, Faculty of Computer Science.
- **Master of Science** (fall 2002 - spring 2003), from the "Politehnica University" of Bucharest, Faculty of Computer Science ("Advanced Computer Architecture" specialization).
- **Bachelor of Science** (fall 1997 - spring 2002), from the "Politehnica University" of Bucharest, Faculty of Computer Science ("Application Software Systems and Artificial Intelligence" specialization).
- **Baccalaureate** (spring 1997), from the National College "Vasile Alecsandri", Galati, Informatics department.

Honors and awards

- **1998**
participation - regional selection for Association for Computing Machinery (ACM)
- **1997**
2nd prize - National Competition of Programming

participation - selection for the International Olympiad in Informatics (IOI)

1st place - Regional Competition of Programming - Braila

qualified among the twenty finalists (3rd place) of the 5th Edition of International Competition in the Programming (ICP)

- **1996**

2nd place - National Competition of Programming

participation - selection for the International Olympiad in Informatics (IOI)

1st place - National Competition of the Winners of the National Competition of Programming and Special Prize for the best solution of the problems

3rd prize - Regional Scientific Communications Session - "Saptamana liceului"

mention - Regional Scientific Session "Open-Info at National College Vasile Alecsandri"

- **1995**

2nd prize - National Competition of Programming

2nd prize - Interregional Scientific Communications Session - "Anghel Rugina", Vaslui

1st prize - Regional Competition of Programming - "Saptamana liceului"

3rd prize - Regional Scientific Communications Session - "Saptamana liceului"

participation - selection for Eastern Europe Competition of Programming

- **1994**

3rd prize - National Competition of Programming

1st place - National Competition of Programming - "Marele premiu al Palatului Copiilor"

1st prize - Regional Competition of Programming - Braila

2nd prize - Scientific Communications Session - Braila

mention - National Competition of Programming - Buciumeni

- **1993**

2nd place - National Competition of Programming

participation - National Math Competition

- **1992**

1st place - National Competition of Programming

Further qualifications

- Foreign languages
 - Fluent in English and Romanian
 - Working knowledge in French
- Interests: Distributed computing, Highly available and scalable systems, Data Mining and Knowledge Discovery, Theory of Algorithms, Fuzzy Systems, Cryptography, Genetic Algorithms, Human Computer Interaction
- Driving license: Holder of a current Romanian **B** class unrestricted driver's licence
- Hobbies: photography, skating, skiing, computers, driving, music, cars, reading, swimming