APPLICATION

as

(Technical) Project/Team Leader, (Senior) Software Architect/ Developer/Engineer/Analyst/ Integrator

To Whom It May Concern

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Dear Sir/Madam,

I am looking for a new freelancer project or permanent position, which will closely meet my job expectations.

I am a certified Software Engineer, with a Master's degree in Computer Science. My work experience is more than 25 years on different levels and positions in software development, system and support engineering.

My main area of activities lies in the field of distributed systems architecture, development of various Client/Server Applications, OOP, Server-side programming as well as Software and System Engineering, project management and team leading.

In the last project I was the member of the team occupied with the porting software for governmental purposes from Visual Basic to C++ with a partial automation by using Python scripts.

Before I worked in an agile team for Scrum in close coordination with the Product Owner and the Projects and Operations department. I dealt with the professional exchange and development of standards in self-organized Community of Practice (CoP), modern software development with C++ 11/14, especially extensions in the areas of GUI, image and data planning and editing, topology, data import/export and data archiving. In addition I developed automatic code generation of service-oriented interfaces from DSL-based interface specifications with Eclipse Xtext Framework (Java/Xtend) and a remote/Web presentation of network state images and data.

In my previous set of projects I was responsible for architecture and development (C++, MS Visual Studio) of Windows Client/Server applications as well as database (Oracle) schema design.

Previously I was involved as Software System Engineer for maintenance and operations activities, system integration, troubleshooting and development for J2EE/Oracle applications on Sun Solaris/UNIX environment including 3rd level of support. Development of various monitoring, KPI, reporting, analytical and support tools with scripting languages and Apache Ant was one of my major tasks.

Before I participated in intensive research work under the Java/Embedded Java environment with Eclipse IDE as well as running J2EE technology-based applications under different Application Server platforms (JBoss, BEA WebLogic) with IntelliJ IDEA being an IDE tool used.

I also have a very strong knowledge together with long-term hands-on experience in the following areas:
  – MS Windows programming with C/C++, VB and C# (MS Visual Studio from 6 to 2019, Borland C++ Builder),
  – MS Windows 10/7/2012/2003/XP/2000/NT Server-Side programming (Multithreading, Services, Security),
  – COM / DCOM / COM+ / ATL / OPC and CORBA programming technologies,
  – Relational databases (SQL, ODBC, OLE DB, ADO, MS Access, MS SQL Server),
  – XML und XML-related technologies (XML schema, XSLT),
  – Graphic user interfaces (MFC, OWL, WTL, .NET Framework),
  – Process automation, hardware programming,
  – OO-Design, UML and CASE-Tools (MS Visio, Rational Rose, Erwin).

As for my personal traits, I am a quick learner and an analytically-minded person, which would definitely be an asset in my potential employment. Being sociable and team-minded I believe my merge into a potential working environment would be easy and fast.

From my side, important criteria of a potential employer would be a team of professionals working in a friendly and open atmosphere.

Please find my attached Curriculum Vitae. I would be glad to meet you at a personal interview where I could speak more in detail about my skills and professional knowledge and will be happy to answer all your potential questions on the phone or via e-mail.

With my kindest regards,

Yury Trofimov

Enclosure: Curriculum Vitae

Reference Letters and other documents can be sent upon request.

CURRICULUM VITAE

Personal Data

Name:	Yury Trofimov
Birthday:	February 26th, 1972
Address:	Schloss Str. 34, 40477 Dusseldorf Germany
Phone:	+49 (0) 176 27154476
E-mails:	yury.trofimov@gmail.com yury.trofimov@hotmail.com
WWW:	www.trofimov.it
Languages:	English: fluent German: very good both spoken and written Russian: native

Higher Education

2003 – 2004	St.Petersburg State Polytechnical University, *Master of Computer Science (M.Sc.)*
1989 – 1995	St.Petersburg State Polytechnical University, *Diploma in Software Engineering*
2009 – 2011	University of Wales, Robert Kennedy College *MBA courses*

School education

1987 – 1989	Lyceum N° 239 specialized in Mathematics and Informatics, St.Petersburg, Russia

Languages

09/2013 – 01/2014	Institut für Internationale Kommunikation (IIK) e.V. Intensive German course, Dusseldorf, Germany *Level 9, C1.1*
11/2003 – 05/2004	Volkshochschule, Landkreis Hof, Intensive German course, Hof, Germany *Zertifikat Deutsch B1 (Note 1) (№ 61043010261500455)*
09/1997 – 06/1998	State Courses of Foreign Languages N° 1, English Department, Evening classes, St.-Petersburg, Russia *Certificate*

Work Experience

03/2020 – present **private projects** **online; Dusseldorf, Germany**	**Software Consultant, Architect, Developer** • Design and implementation of IoT software/hardware solutions for Smart Home on the base of single board computer and industrial sensors. • Development in Python, Bash and C++
11/2019 – 02/2020 **Excellence AG** **Dusseldorf, Germany** *www.excellence.ag*	**Senior Software Developer** • Software porting from Visual Basic to C++ • Python tools development • Preparation of documentation
06/2015 – 08/2019 **BTC AG / PSI Software AG** **Berlin, Germany** *www.btc-ag.com* *www.psi.de*	**Senior Software Developer** • C++ (11/14), Java/Xtend and batch script development • Analysis and fixing of complex errors in the product • Preparation of documentation and specifications
11/2010 – 09/2013 **RWE IT GmbH** **Essen, Germany** *www.rwe.com*	**Software Consultant** • Software architecture • C++/VB/SQL and PL/SQL development • DB schema design
02/2006 – 09/2009 **Vodafone Group** **Dusseldorf, Germany** *www.vodafone.com*	**IT Consultant** • Deployment, maintenance and operations activities • Software development and support (Java/bash/SQL) • System integration • Business engineering • Troubleshooting • Preparation of documentation, specifications and technology presentations
11/2004 – 08/2005 **Ricoh Europe B.V.** **European Development and Solution Center** **Dusseldorf, Germany** *www.ricoh-europe.com*	**Software Engineer** • C++/Java/J2EE/Embedded Java development • Preparation of documentation and specifications
06/2001 – 10/2003 **best solutions AG,** **St.-Petersburg Branch** **(Headquarters in Cologne, Germany)** *www.bestsolutions.ag*	**OPC Team Leader / Senior Developer** • Development activity management • Software analysis and design • Software development C/C++, C#, VB • Technical consulting • Preparation of documentation and specifications

01/2002 - 12/2002 **Consulting employment agency Your Personnel JSC, St.-Petersburg, Russia** *Part time work* *www.personnel.zk.ru*	**IT Manager** • Interviews • Personnel recruitment • Website support
09/1999 - 05/2001 **Loval JSC, St.-Petersburg, Russia**	**Software Engineer, Client/Server specialist** • Software analysis and design • Software development C/C++, COM/Corba • Preparation of documentation and specifications
03/1999 - 09/1999 **Star JSC, St.-Petersburg, Russia** *www.star.spb.ru*	**Software Engineer** • Linguistic software development (C/C++) • Client software development (C/C++/VB) • Design of database (MS Access, SQL) • Preparation of documentation and specifications
12/1996 - 02/1999 **Sergey Vikhrov private enterprise, St.-Petersburg, Russia**	**Software Engineer** • Analytical software development for financial market (C/C++) • Preparation of documentation and specifications
08/1994 - 11/1996 **Yurmiko Ltd., St.-Petersburg, Russia**	**CEO, Co-Founder** • Hard- and software client service • Computer maintenance • Computer users training
10/1993 - 07/1994 **Scientific Research Institute of Fire-proof materials, St.-Petersburg, Russia** *Part time work*	**Programmer** • Payroll system development
09/1993 - 07/1994 **Laboratory of Information and Measuring Systems, St.-Petersburg State Polytechnical University, St.-Petersburg, Russia**	**Intern** • Development of educational system for statistical distribution

Technical Skills

Programming and description languages

C/C++, Python, C#, SQL (PL/SQL), Shell scripts, Java, Visual Basic, Perl, Xtend,
FORTRAN, Pascal, Prolog, Assembler x86
XML and related technologies (XSLT, DTD etc.), HTML, UML, YAML, JSON

Tools

MS Visual Studio 2019, 2017, 2015, 2013, 2012, 2010, 2003, .NET 2002, 6, 5,
MS Visual Studio Code,
Borland C++, Borland C++ Builder,
Eclipse, IntelliJ IDEA, Borland JBuilder,
Arduino,
InstallShield, Apache Ant,
MS Visio, Rational Rose 2000, Erwin, MS Project,
Rational Purify, Rational Quantity, NuMega BoundsChecker 6
Doxigen

Libraries and Technologies

STL, MFC, Boost, ATL, OWL,
OPC (OLE For Process Control)
RSA BSAFE Cert-C, RSA BSAFE Crypto-C, VSFlexGrid
COM/DCOM/COM+, CORBA (VisiBroker 3, 4)
JDK, J2EE, DSDK Type II, Xtext
Microsoft Windows CE Toolkit for Visual C++ 6.0, Microsoft Windows CE Platform Builder
Win32 API, 10/7/2012/2003/XP/2000/NT Server-Side Programming (Multithreading,
Services, Security)
Telegram Bot

Application and Webservers

Home Assistant, JBoss, Bea WebLogic, Apache HTTP Server, Tomcat

Databases

Oracle, MS SQL Server, MS Access, Firebird, Clipper
SQL, PL/SQL, ODBC, OLE DB, ADO

Source Management Systems

Git, Subversion (SVN), CVS, PVCS – Serena Version Manage, MS Visual Source Safe

Trouble Ticketing Systems

Jira, BMC Remedy 7 ARS, TTS

Methodologies

Agile, Scrum, Waterfall

Documenting Systems

Doxigen, Doc-To-Help 3.0, 6.0

Operating systems

Windows 10/7/2012/NT/2000/XP/2003/Vista/7, Windows 9x, Windows 3.x, Windows
CE, MS-DOS, Sun Solaris 5.10, Unix/Linux, Raspbian, Armbian

PROJECTS

Private projects

03/2020 – present

Design and implementation of IoT software/hardware solutions for Smart Home on the base of single board computer and industrial sensors

Tasks:
- Development of automation configurations
- Configuration of Home Assistant systems
- ESP32 firmware porting
- Porting of firmware for Zigbee coordinator/extender
- Development of tools to collect information from Xiaomi Clouds
- Development of Telegram Bot to control Home automation
- Testing of firmware beta versions

Technologies:
Raspbian, Ubuntu, Armbian, Windows 10
Visual Studio Code, Arduino, PuTTY
Home Assistant, Mi Home, Apache HTTP server
bash/ksh, Python, C++
YAML, JSON, Zigbee, WiFi, Bluetooth, SSL certificates
Telegram Bot

Hardware:
Raspbery Pi 2/3+/4, Banana Pi M2, ESP32, Xiaomi/Aqara/Phillips devices and sensors

Excellence AG->5Minds IT Solutions GmbH->Prosoz Herten GmbH

OPEN/PROSOZ   11/2019 – 02/2020

OPEN/PROSOZ is a Software solutions for the SGB II (Job and Social affairs), SGB XII and AsylbLG (Welfare)

Responsibilities:
- Software porting
- Development of automation tools
- Bug fixing

Technologies:
Windows 10,
Visual Studio 2017/2019, Visual Studio 6,
C++, Visual Basic, Python,
COM, XML
Doxigen

Source Management:
Git, Subversion

BTC AG / PSI Software AG

PSIControl   03/2019 – 08/2019

PSIcontrol is a high-end control system that works reliably even in extreme network disturbances. It effectively supports network management in fault localization and the fastest possible and comprehensive resupply

Responsibilities:
- Software development and configuration in GUI area
- Bug fixing

Technologies:
CentOS 7,
Eclipse
C/C++, Shell scripts
XML

Source Management:
Subversion

Trouble Ticketing Systems:
Jira

PRINS   06/2015 – 08/2019

The process information and control system PRINS is an integrated hardware and software system for monitoring and controlling regionally and nationally distributed processes in real time

Responsibilities:
- Software development in the areas of GUI, image and data design and processing, topology, data import/export, archive data systems
- Automatic code generation of service-oriented interfaces from DSL-based interface specifications with Eclipse Xtext Framework (Java/Xtend)
- Office PRINS (oPRINS) development. Remote/Web presentation of images and data
- Bug fixing

Technologies:
Windows 7,
MS Visual Studio 2008/2012/2015/2017,
Eclipse, Xtext
C/C++ (11, 14), Java, C#, Batch scripts, Xtend, Boost, MFC, SQL, XML, ODBC, LEADTOOLS, RabbitMQ
MS SQL, Oracle

Source Management:
Git, CVS

Trouble Ticketing Systems:
Jira

RWE IT GmbH

TAD/SAP-VE   11/2010 – 09/2013

Set of Client/Server applications for data management in power stations

Responsibilities:
- Software architecture
- Software development
- Database schema design
- Bug fixing/optimization of previous version
- Software migration to Windows 7/SmartClient

Technologies:
Windows XP/7,
MS Visual Studio 6/2010/2012,
MS Excel 2007/2010,
C++, MFC, PL/SQL, XML, ODBC, ADO
Oracle

Source Management:
PVCS – Serena Version Manager

VGB   07/2011 – 10/2012

XML based editor for suppliers to import data in the global RWE database according to VGB standards

Responsibilities:
- Software development
- GUI design
- Software migration to Windows 7/SmartClient

Technologies:
Windows XP/7,
MS Visual Studio 6/2010/2012,
MS Access 2003/2007/2010,
C++, MFC, PL/SQL, VBA, XML, XSLT, ODBC
Oracle

Source Management:
PVCS – Serena Version Manager

Vodafone Group

Vodafone Live!   02/2006 – 09/2009

Software/Hardware platform to provide Vodafone worldwide mobile customers with various services (search, music download/streaming, ring tones, news, games, mobile TV etc.)

R9   08/2006 – 09/2009

New release wave of software packages for Vodafone Live!

Responsibilities:

- Integration of Google and FAST search functionality into R9
- Technical specifications and architecture design development
- R9 Search products deployment, configuration, version issues, testing and troubleshooting in multi-countries environment including 3rd level of support
- Development of monitoring, KPI, reporting, analytical and support tools.
- Development of configuration utilities to build distribution packages based on tokens
- Projects planning
- Preparation of documentation and technological presentations

Technologies:
Sun Solaris, Windows XP,
Java/J2EE, XML (XSLT, VCML, PML, RDF, Google sitemaps, Google feeds, FAST FiXML),
Shell scripts, SQL, PL/SQL,
Apache HTTP Server, Ant, JBoss 4, Oracle 9i, Squid,
Internal Vodafone Components (SCPS, LWS, BC Live! Search, BC Federated Search, MetadataCollector, CoreStack (CRE/CAE/3PI)),
BMC Remedy 7 ARS TTS,
ITIL

Source Management:
Subversion (SVN)

Sony Music   02/2006 - 06/2006

Integration of Sony Network services into Vodafone environment

Responsibilities:

- R7 SCPS (Search Content Push Solution) module installation, configuration, testing and troubleshooting in multi-countries environment
- Implementation of FAST search functionality for Sony Music services
- Support of the prototype stage of Google search solution
- WPI (Web Purchase Interface) module installation and configuration
- Common troubleshooting
- Preparation of documentation

Technologies:
Sun Solaris, Windows XP,
Java/J2EE, XML (XSLT, VCML, PML), Shell scripts,
Apache HTTP Server, JBoss 4, Oracle 9i,
Internal VF Components (SCPS, WPI, CoreStack)

Source Management:
Subversion (SVN)

Ricoh Europe B.V.

Octopus   05/2005 - 08/2005

Client/Server software system to collect and representation data from Multi-functional Printer (MFP) devices

Responsibilities:
- Bug fixing of previous version
- Implementation of client authentication and authorization support in software modules
- Preparation of documentation and specifications

Technologies:
Windows XP/2003,
Borland C++ Builder 6,
SQL, Firebird 1.52,
MS Visio

Source Management:
Subversion (SVN) (+ Araxis Merge 6.5)

Network Packages   04/2005 - 05/2005

Set of Java network libraries to support TCP/IP, SMTP, SNMP and RIP protocols, search of and communication with MFP devices

Responsibilities:
- Implementation of multi-threaded search of MFP devices in specified network by network address and network mask
- Preparation of documentation and specifications

Technologies:
Windows XP,
JDK 1.5, Eclipse 3.1,
MS Visio

Source Management:
Subversion (SVN) (+ Araxis Merge 6.5)

Oculus (research project)   12/2004 - 04/2005

Transfer of Octopus WebReporter developed on C++ and CGI scripts to Java 2 Enterprise Edition technology with using of clustering.

Octopus WebReporter is a Web reports generator for the Octopus project. It is used to present information collected from MFP devices.

Responsibilities:
- Design and development of the Front-end. Automatic generation HTML pages by using XSLT technology
- Clustering implementation
- Participation in SQL requests to database development
- Preparation of documentation and specifications
- Technology presentation

Technologies:
Windows XP,
JDK 1.5, J2EE, Java Script, IntelliJ IDEA 4.5,
JBoss 4.0.1, Bea WebLogic 9.0 (Beta)
Apache HTTP Server, mod_jk, Tomcat 5.5
XML, XSLT, HTTP, JDOM, Altova XML SPY 5,
Macromedia Dreamweaver MX 2004
SQL, Firebird 1.51
MS Visio

Visual List   11/2004 - 12/2004

List Control object for embedded Java environment of Ricoh MFP devices

Responsibilities:
- Design and implementation of List Control object
- Preparation of documentation and specifications

Technologies:
Ricoh embedded UNIX system,
JDK 1.3, DSDK Type II,
Eclipse 3.0, Omondo UML 2.0

best solutions AG

Plantserver (www.plantserver.net)   10/2001 - 10/2003

OPC-based (OLE for Process Control) software system for processes automation in chemical, petrol chemical and pharmaceutical industries

Quality Inline Blending (QIB)

3-Tier Client/Server software system for processes automation for Deutsche Shell and DEA AG

Responsibilities:
- Group leader, consulting
- Design and development of NT Services based Client/Server components for data acquisition and management of OPC Servers
- Design and development of NT Services based Client/Server components for OPC Address space mapping in local network
- Development of test OPC servers
- Design and development of graphical test software
- OO design, specifying
- Preparation of documentation

Technologies:
Windows 2000/XP/2003,
MS Visual .NET (C++, VB, C#),
Rational Purify, Rational Quantity, NuMega BoundsChecker 6, MS Visio
OPC, STL, COM/DCOM/COM+, ATL, XML, MFC, WTL, UML

Source Management:
MS Visual SourceSafe, CVS

ftCDRecorder   07/2002 - 08/2002

Server component for data recording on CD/DVD and CD/DVD labeling via Rimage™ Software

Responsibilities:
- Design and development of NT Services based Client/Server component for data recording on CD/DVD and CD/DVD labeling via Rimage™ Software
- Design and development of graphical test software
- OO design, specifying
- Preparation of documentation

Technologies:
Windows 2000/XP, MS Visual C++ .NET,
Rational Purify, Rational Quantity, NuMega BoundsChecker 6, MS Visio,
Rimage Imaging and Production Servers,
COM/DCOM/ATL, STL, XML, MFC

Source Management:
MS Visual SourceSafe, CVS

TrendXL 3   06/2001 - 09/2001

3-Tier Client/Server system for process automation, data processing and presentation

Responsibilities:
- Group leader, consulting
- Design and development of multifunctional OPC Client for data acquisition and management of OPC Servers

Technologies:
Windows NT/2000, MS Visual C++, VB,
OPC, COM/DCOM/ATL, XML

Source Management:
MS Visual SourceSafe, CVS

Loval JSC

uGuard (www.guardone.com, www.uguard.com)   05/2000 - 05/2001
under contract with **GuardOne.com Inc. (Palo-Alto, USA)**

2-Tier Client/Server System for user data storage on the remote protected server

Responsibilities:
- Design and development of COM objects built-in in Internet Explorer for automatic user data population, reading and control of user data, stored on the remote protected server
- Design of GUI and XML-metadata for important user data representation
- Interface designs for WWW-server API based Internet connections
- Design and development of libraries enabling operations with secure objects: certificates, public and private keys; through RSA BSAFE Library
- Documentation development

Technologies:
Windows 95/98/NT/2000, Windows CE, MS Visual C++ 6.0, Microsoft Windows CE Toolkit for Visual C++ 6.0, Microsoft Windows CE Platform Builder, COM/DCOM/ATL, MFC, XML, VSFlexGrid, RSA BSAFE Cert-C, RSA BSAFE Crypto-C, Perl

Source Management:
MS Visual SourceSafe

Portable Component Architecture (PCA)   09/1999 - 04/2000
(www.concordesolutions.com)
under the contract with **Concorde Solutions Inc. (Palo-Alto, USA)**

Flexible and scalable technology, enabling its object to be simultaneously native for different distributed technologies (for ex. DCOM, CORBA)

Responsibilities:
- Design and development of exceptions support, reference counting, event and persistence services, XML storages and different utilities for the technology.
- Participation in the development of the technology adaptation for COM and CORBA technologies
- Test software development
- Documentation development

Technologies:
Windows NT, Borland C++ Builder 4 and 5, VisiBroker 3.3 and 4, MS Visual C++ 6.0, Rational Rose 2000, NuMega BoundsChecker 6, STL, COM/DCOM, CORBA, Assembler x86, XML

Source Management:
MS Visual SourceSafe

Participation in the competition held by Motorola Inc. Russia for Java 2 Micro Edition (J2ME) Mobile Information Device Profile (MIDP)

Task:
- Development "Move the Knight" game

Technologies:
Windows NT, Borland JBuilder
Java SDK, simulator Sun MIDP

Star JSC.

LISA   07/1999 - 09/1999

Multifunctional custom client/server software system for forums, workshops, seminars and events to track specific organizational records

Responsibilities:
- Design of database interfaces, structure and services
- Development for data migration process from Filemaker into MS SQL Server database

Technologies:
Windows NT,
MS Access 2000, MS SQL Server 7.0,
MS VBA, SQL

Source Management:
MS Visual SourceSafe

CONCORDANCE (part of TRANSIT project)   03/1999 - 06/1999

Application to manage terminology languages databases for TRANSIT (multilingual Translation Memory system for professional translators to automate documents translation)

Responsibilities:
- Design and development of GUI and application algorithms
- Utilities development for the text arrays processing

Technologies:
Windows 95,
Borland C++
OWL, STL, Regex for Win32, Perl, InstallShield

Source Management:
MS Visual SourceSafe

Sergey Vikhrov private enterprise

ANALYSE 32 (for Win32 platform)   06/1998 - 02/1999

Software tools to process data for financial market. Analysis and forecast for traders

Responsibilities:
- GUI design
- Programming of the methods for correlative and regressive analysis
- Development of access to the SQL database for analyzed data reading through ODBC
- Transformation of customized input information into internal format
- Installations and customers support

Technologies:
Windows 95/NT,
Visual C++,
MFC, ODBC, DAO, MS Access, InstallShield

ANALYSE 16 (for Win16 platform)   12/1996 - 05/1998

Software tools to process data for financial market. Analysis and forecast for traders

Responsibilities:
- GUI design
- Programming of the methods for correlative and regressive analysis
- Development of access to the database for analyzed data reading
- Transformation of customized input information into internal format
- Installations and customers support

Technologies:
Windows 3.1/3.11,
Borland C++,
OWL, Clipper

Other projects are no longer relevant