Technology White List

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Research & Development

C++ Development

Native programming leads not only to fast results but is sometimes the only way to get to the desired solution.
Many existing software is still only available as native libraries.

In last few years at Borland Software I was responsible for maintenance and extension of about 500MB of native source code - although I was originally hired for extending SilkPerformer's Script compiler with a debugger.
My special responsibility was utilizing the whole broadband of **MS Windows Win32 and COM API** which covers all MS Windows functionality.
Besides I gained vast knowledge in **native process, Win32 UI and network hooking.**

Some of the highlights in my former job was an implementation of

- own ZIP compression library
- direct MFC to SWT library allowing unlimited combination of this traditional and Eclipse used graphics frameworks thru (hooked) native bridging

In my former work at AMS Engineering Sticht GesmbH in Hagenberg I also gained knowledge

- in Video for Windows API.
- Software anti-piracy software and user management
- Former Borland C++ Builder's graphics libraries (OWL)
- TWAIN and ISIS Scanner APIs
- Chipcard CT API
- Barcode native API (sorry I don't know which one it was anymore ;)
- Open GL

Java Development

Java is probably the fastest and easiest way to get to deployable results.
Recently at Borland Software I was mostly occupied by bridging C++ with Java.
This means development of highly complex Java applications upon fast C++ functionality.

Besides I have bold experience with

- Eclipse Plug-In development
- Graphics frameworks AWT and JFC and SWT
- Java Advanced Imaging
- Java 3D
- Java Media Framework
- Common Server Frameworks like Apache Frameworks and Servlets.
- High level frameworks like spring framework or hibernate although I think that this level of abstraction mostly causes more problems than it solves.
- JMX

Back-end and front-end of Zynk Education Center is completely written in Java using Applet, direct socket and Servlet technology as well as modified Red 5 Streaming Server.

Flex Development

I came to Adobe's Flex at Borland Software when we developed a functional testing framework interface for SilkTest upon theirs automation API and a web traffic testing interface for its AMF3 server-client protocol.

As I already had some experience with Flash development, I soon discovered that this framework is ideal for enterprise application development.
AS3 is quite powerful for complex browser based frontend GUI in combination with Java server backend.

This page is made in Flex.
For a quite complex and powerful web-frontend GUI see the Zynk Education Center demo.
Forget about AJAX, WebServices or any JavaScript frontend frameworks. Flex with AMF3 allows me building type-safe and efficient object oriented development of web applications.

Flash Development

Adobe's Flash has been a respectable animation development tool for years.
I prefer using it for nice animations with some less complex functionality using ActionScript.

See these self made Games to make yourself a picture about my skills.

PHP Development

Sometimes PHP is the fastest way to get some acceptable results in web-development.
Most cheap virtual hosting providers do not allow Java or CGI. The only way out is thru PHP which became quite powerful with its plenty of libraries and open source software packets.
I spent some time practicing in php like programming some server side database queries or modifying existing php code, but for more complex server side applications I prefer Java.

Uga-Agga is my favorite MMOG. Some years ago I wrote a PHP application for managing the in game data myself. UA-Bay is a small tool and took me some weeks and several 100s lines of code to compete my requirements.

HTML/CSS/JavaScript Development

Well those technologies are the backbone of the web.

I can read it, modify it and write my pages by hand.
JavaScript is a nice quick and dirty programming language but for complex development too unsafe.

Other Technologies

In my career I have come in touch with new technologies permanently. In every case it means that I can learn a language, a tech-library or a tool within days/weeks.

Here is the chronological listing of everything I came in touch until today:

- C64 - GW-Basic, Sprites
- PC XT - HW, DOS, GW-Basic, Turbo Pascal, dBase, Clipper
- PC AT/368 - CA Visual Objects, MAGIC, Turbo C++, VGA-VESA
- PC 486 - MS Visual Basic, Access, ADO/DAO, Java
- Pentium - Borland BC5/OWL/DataExpress, ODBC, Oracle 7,8,9 Client/Server, PL/SQL, Video For Windows, XML, CVS, PCVS, Sevlets
- Pentium+ - Borland C++ Builder, OpenGL, Barcodes, Chipcards, Flash, JavaScript, JMF, JAI, Java3D, TWAIN, ISIS
- DualCore - MS Visual C++, .NET (read, modify, compile), MSDN2, Eclipse, SWT, Plug-In Dev, JMX, Flex, RTMP/Streaming
- QuadCore - **much more to come ;)**

Applications, 3rd Party Software, aso.

Operating System

MS Windows preferred

Linux – shell operation, software installation, basic administration is not an issue

Web Servers+

Apache HTTPD

Apache Tomcat

IIS

SSL/TLS Layer

Subversion

Capability of configuration of any software runnable on MS Windows or Linux servers.

(Web) Design

Specialized on Adobe Products.

HTML/CSS patches manually.

Web Applications (highlights only)

PHPBB Forums installation and administration and customization

MediaWiki Software installation, administration and customization

Hardware Installations

Any Intel/AMD PC configuration