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Skills (complete listings of employers and technologies at <http://zynk.at/cv>)

Development

C++ Programmer - highly skilled

2008 - 2009 * Self employed <http://camsinweb.com>

Flex->Java->C++->Java->Flex Bridge design and implementation for utilizing Media Encoder as a part of the web application supporting it with hotkey support and external flex driven controller through Windows Messaging API.

2004 - 2008 * Borland Software (now Micro Fusion, former Segue)

Senior Software Engineer responsible for maintenance and extension of the SilkPerformer and SilkTest products. Specialist for JNI issues, load test controller, compiler and runtime, JNI native bridging and SDK, green screen feature extension (telnet).

Browser hooking for native automation API support for SilkTest. I implemented an own ZIP library upon zlib in C++ for Java capable UTF-8 processing.

1999 - 2003 * AMS Engineering

Software Engineer responsible for maintenance of several automation software products and a video documentation library. Using Borland C++ Builder (ancient) I had to extend a VfW application with searching logic addressing a Oracle 7 Database directly. I also designed and implemented own SDK for user and authorization within the whole own product range and a SDK for safe license checking.

Java/J2EE Programmer - highly skilled

2008 - 2009 * Self employed <http://camsinweb.com>

Besides the bridging issues described above, my whole server logic is implemented in Java over BlazeDS. It also includes an own FLV streaming and cutting engine for direct HTTP streaming (which I needed due to buffering issues for which available RTMP servers are not suitable). All other application logic is hand written in Java by myself.

2004 - 2008 * Borland Software

Eclipse development expert porting the product lines described above to eclipse. I was responsible for the technological research of Eclipse and implemented the Plug-In versions of the product lines. The Java SDK of SilkPerformer is the most used by its customers and was designed and implemented by myself. I extended SilkPerformer with several C++->Java bridges for in process SWT support and UI extensions. Native, UI and bridging part of its JMX support was done by myself.

1999 - 2004 * AMS Engineering

Development of a XML based visualisation, transform and processing script language including runtime for a in-house developed medical software. Also I developed PDF-417 bar-code, chip card reading and form scanning software extensions of it using JMF and other third party libs.

Between the main jobs

Some games development, and an imaging library backend maintenance.

ActionScript Programmer - highly skilled

2008 - 2009 * Self Employed <http://camsinweb.com>

The frontend of the Flex application contains about 25k LOC including all video portal functionality, an on-line video editor (upon the server side engine), and the HTTP-Multi-Stream replay engine.

2004 - 2008 * Borland Software

Expert for the AS issues. AMF verification engine and sample applications.

Besides

Design and imlementation of some small Flash games. See <http://zynk.at> for yourself.

Other languages programmer - skilled

I implemented some side projects in VB and FoxPro, learned programming in Clipper, implemented a purchase order application in MAGIC (ancient DOS times), prepared my career by a nice-to-have pacman in Basic on C64 at age of 11.

Databases

1999 - 2004 * AMS Engineering

Oracle Database installation, design and PL/SQL programming.

2001 - 2002 * JKU Linz (University)

Tutor for relational databases on FAW insitute verifying other students exercizes.

MS SQL, MySQL, PostGres, Access SQL design, programming, configuration and maintenance are a no issue for myself.

Servers, Protocols and Tools

Meanwhile I can configure several web servers and applications including Apache, Tomcat, IIS, SSL, PHP (also programming skills) and Subversion. I have a broad knowledge base about existing network protocols from my time at Borland in which these have to be analyzed semantically for verification.

Modelling

I always use UML for software documentation, design and planning.

Project Management

Well the project management models that I've been taught during my studies seem to be outdated although I find many of its aspects in modern project management principles like Agile, Scrum and XP. In my work I've learned much more by doing about:

- Customer Driven Requirements
- Project/Product Goals
- Effort Estimation
- Project Planning
- Road Maps
- Team collaboration and team play, sprints and burn down charts
- Bug escalation and risk management
- Project Backlog

I'm able to plan work for even large scale projects (as I've proven it in camsinweb.com project). I've also taken responsibility and driven projects with few colleagues involved full time for some months like porting SilkPerformer on Eclipse and finished the job with them in time. I like to talk about project issues with work-mates – there is always a way to do the job, but I'm quite confident about discussing the matters with customers or product management or marketing department as well.

Languages

English - spoken fluently and able to write documentation and correspondence.

German - native speaker (although learned anew at age of 13)

Czech - native speaker (born in Prague, migrated during cold war)

French - scholar basics

Education

1996 - 2003 CS on JKU Linz, Austria

Master degree in informatics on the Johannes-Kepler University in Linz.

Thesis: Data Collection and Processing for Medical Probes (also part of my work at AMS Engineering)

Internship 2: Implementation & Design of a prototype for tiscover.at (combination of web data with GPS, IFS-JKU)

Internship 1: Implementation of a tiny Java 3D editor for the VOEST Alpine SAFE project (GUP-JKU).

1995 - 1996 Studies - Electrical Engineering at TU Vienna, Austria

1990 - 1995 Bundesrealgymnasium Linz, Fadingerstraße 4

Thesis: EGA/VGA direct programming

1988 - 1990 Bundesrealgymnasium Gmunden

Obligatory Military Service in Austria

2001 – 2002 Ambulance driver / paramedic assistance

ASB Linz, Austria

constantinus.net award

