Curriculum Vitae for Bjørn Augestad

Personalia

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The Very Brief Summary

C, C++, Java, Oracle, MS SQL, PL/SQL, UNIX, Linux, TCP/IP, CORBA, RPC, Win32, Multithreaded Programming, Embedded and real time programming.

Finance and Trading

2001-2007 Developed the MetaOptions library. This library is a collection of functions related to trading of futures and options. The library is implemented in C and callable from a number of different tools and products.

1999-2007 Traded stocks, options and futures on NASDAQ, NYSE, NYMEX and CBE on my own book and time. Nonetheless, more time spent on that than any other project during the period.

1998-1999 Chief architect and project manager, developing a trading system for a major Norwegian company. System included both standardized and bilateral contracts, as well as futures, forwards and options.

1996-1997 Project leader, re-engineering contract management system used for trading of electrical power for Hafslund Trading AS.

1994-1996 Participated in the development of a GUI version of Ergosoft Solver, a product which later was purchased by Great Plains Software(USA) and now is a Microsoft product named Microsoft Enterprise Reporting.

Embedded & Real time

2004-05 Part of a research project for Nera Research, developing a *cognitive radio*. I was responsible for design and implementation of network protocols and programs to transport TCP/IP over wireless radio. We designed and built our own hardware, used a Blackfin DSP as CPU and ran ucLinux on the DSP.

2003-04 Participated in Nera/Telenors Oslo pilot for DVB-RCT communication, doing two-way TCP/IP communication.

2003 Redesigned internal architecture for user interface on a commercial Set Top Box for Force Technology AS, as well as implemented tools and runtime libraries for integration with hardware, and other misc parts of the embedded sw. Platform was OS-20 RTOS using C and C++.

1991 Implemented card payment software for use on all of Copecs gas stations. Copec is Chiles largest oil company..

1987-88 Implemented hand helt system for parking ticket registration and printing, for TrafikkSikring AS.

UNIX and networking

My first experience with UNIX was in 1984, having a friend running IBM Xenix 1.1 on an IBM PC/AT. The first professional use of UNIX was in 1989, on a project running System V UNIX on Unisys 386 servers. Since then I've worked with Solaris, AIX, HP-UX, OSF/1 and Linux.

I've written CORBA-based applications, web servers, networked job servers, print spoolers and many other things utilizing TCP/IP.

2004-05 Designed and implemented software for routing IP over radio. Used a TUN/TAP device with a Linux kernel. We multiplexed the IP packets into new radio packets, shipped them over air and demuxed the packets on the receiver. This worked both ways, effectively creating a network link. This project was done for Nera Research.

2004 Studied the effects of asymmetric routing of IP for Nera SatCom.

2004 Responsible for all TCP/IP related activities in the Nera/Telenor DVB-RCT Oslo Pilot, as well as some embedded programming on the ThreadX RTOS.

2001-2007 Developing the Highlander web server library, which is a multithreaded POSIX C library for embedding web servers in other programs or creating custom standalone web servers or services.

2002 Implemented a CORBA-based proxy server for BBS, using C++ and Orbacus, as well as the Highlander web server for distributing IORs to CORBA clients as well as providing embedded documentation and status information.

2001-02 Wrote misc CORBA-based client programs for Banktec/BBS.

Databases and servers

I have worked with all major RDBMS products, from Ingres 5.1 on System V UNIX back in 1989 to Microsoft SQL Server 2005 SP2 on Windows 2003 Server. This list includes Oracle 8.0.5, 8.1.[567] and Oracle 9. It also includes Informix v7, Sybase and Postgres.

The tasks and projects I've used databases for, span a large number of areas. Anything from simulating proprietary ISAM implementations in SQL to my share of Internet projects and products.

2006-2007 Redesigned, reimplemented and optimized a multiserver installation for Online Services AS. (MSSQL)

2003 Optimized and debugged the database servers and client programs for www.mao.no, a major web store. (Oracle)

2000 Optimized and redesigned a multi language, multi server high load db installation(MSSQL) and ported the same database to Oracle. The customer vas Stepstone ASA.

1998-1999 Designed and implemented a complete trading system in MSSQL and Oracle for Hafslund Trading AS

1996-1997 Redesigned a power trading system(MSSQL) for Orion Systems AS

1994-1996 Designed and implemented solution for asynchronous replication of data between 1300 databases on 600 physical locations all around the world. This solution was a part of the Ergosoft Solver product, used by ABB in a pre-Internet world. (MSSQL)

1991-1992 Designed and implemented a membership, subscription and loyalty system for NJFF(MSSQL 1.11 on OS/2, aka Sybase 4.2)

2001-2007 Developing the MetaCoder code generator, which supports Oracle and Postgres.

Programming

I have programmed computers for more than 20 years, professionally. During that time I've seen both languages, products and concepts come and go. I started off with C, made the change to C++ in the early ninties, was an early adopter of Java in late '96, but then moved back to C. Over the last few years, I've briefly looked into languages like C#, mostly from a Quality Assurance perspective.

For the sake of completeness, here is a list of programming languages and tools I have used over the years: C, C++, C#, Java, Fortran, Visual Basic, Pascal, COBOL, PL/SQL, Transact-SQL, Simula, lex&yacc.

Education

1987-88 Høgskolekandidat, Datahøgskolen, Oslo

Personal time

My favorite place is outdoors in the Norwegian woods and mountains, as well as on a football field with my two twin children. These days(2007) I spend a lot of time preparing for the Birkebeiner-ritt, which is a 92 km long bike race.