

David Thielen

1127 Barberry Ct.
Boulder, CO 80305
303-499-2544
david@thielen.com
<http://dave.thielen.com>

SUMMARY

Senior software developer with over 5 years experience developing in Java, J2EE, and many standard Java libraries. Architected, designed and coded several complete J2EE-based enterprise systems. Wrote a layer on top of an EJB 1.0 server providing EJB 2.0 functionality.

Have numerous years of experience with network protocols from the packet to the socket level. Have also written operating systems, enterprise server systems, applications, and games in C++.

Invited speaker at numerous national conferences speaking on topics ranging from low-level programming to managing the development process. Author of four books and over 30 articles.

SKILLS

Patents: 6,092,144 6,033,108 5,596,726
Languages: Java, J2EE, EJB, JDBC, JSP, HTML, Servlets, JavaScript, XML, XSL, XPath, C#, C, C++, x86 Assembler, MFC, STL.
Certifications: CISSP, SCJP (Java), SCWCD (J2EE), MCP.
Tools: Weblogic, Tomcat, JRun, JUnit, log4j, dom4j, ant, VSS, CVS, IntelliJ, Dreamweaver, BoundsChecker, Soft-Ice, V-Tune.
Systems: J2EE, WebLogic, WebSphere, JRun, Tomcat, IIS, sockets, TCP/IP, NETBIOS, rtf, pdf, >NET, Windows SDK, Windows DDK, UNIX.
Databases: SQL Server, Oracle, DB2.
Products Shipped: Automate!Test, Windward Reports, DefendTek, QuickStreet Server, Business Object Builder (Bob), Page 2 Stage, Enemy Nations, Wing Commander Armada for Windows, Monty Python's Complete Waste of Time, Win-Link, Windows 95, Far East Windows 3.1 (Japan, Taiwan, Korea), WinView, Co-Counsel, The Cat, and numerous smaller programs.

EMPLOYMENT (JAVA)

Windward Studios	Boulder, CO	2001 – 2003
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Senior Developer

- Architected, designed & coded Windward Reports (www.WindwardReports.com), a system that allows you to quickly layout reports using Microsoft Word and then create reports in rtf, html, or pdf format using an xml file for the data and the word document you created as the report template.
- Designed it so you lay out your report in Microsoft Word (or any word processor that can save a document in rtf format). This allows you to use all of Word's powerful layout and formatting properties to set exactly how you want the report to look.
- Reports are written as html (3.2), html (with .css), pdf, rtf, or txt. Written in Java and uses XPath for all xml references.

QuickStreet, Inc. Westminster, CO 2000 – 2001

Director of Software Development

- Built up a development team from scratch including development, test, program management, database, system admin, and more.
- Architected and designed a system to take orders from web sites, price them, and deliver them to couriers for same day delivery. Includes controlling the drivers via wireless communication and providing the drivers with optimal routes.
- Implemented on J2EE in four months from start to successful launch of version 1.0.

Global Commerce Systems Boulder, CO 1999 – 2000

Senior Developer

- Created a massive enterprise server based system that provides significant new functionality for business-to-business e-commerce.
- Among others General Electric was using this for all of their internal purchases as well as purchasing from suppliers.
- Implemented this in Java using multiple data sources on the back end, Enterprise Java Beans (EJBs) for the middle tiers, and Java Server Pages (JSPs) on the front-end. We are also using virtually every other enterprise-level Java API including JDBC, JTS, JNDI, etc.
- My work included writing the tools that all other developers use to create their EJBs and writing the persistence layer that maps all EJBs to multiple data tables.

EMPLOYMENT (C#/C++)

Newmerix Superior, CO 2003 - present

Senior Developer

- Specified, architected, designed and presently coding a program to provide for automated migration and merge of patches and customizations of ERP systems. Initial product is targeted at PeopleSoft systems and written in C#.
- Major contributor to the companies test product which provides automated tests for ERP systems. The initial product shipped is targeted at PeopleSoft systems and written in C#.

Microsoft Corp. Redmond, WA 1990 – 1994

Senior Developer

- Completely rewrote the BIOS and initialization code of the DOS kernel. Also did substantial work in the DOS section of the kernel.
- On the Win95 project, wrote a file system, worked on the disk cache, wrote the volume tracking code and floppy disk device driver, worked on the new block device driver spec and design, and designed and wrote the COMM device driver system.
- On temporary loan to the Far East division working in Tokyo, Taipei, and Seoul, helping to direct the development efforts of the Far East versions of Windows 3.1. Contributions include modifying the design of the Far East specific sections and incorporating significant improvements; and designing and implementing DOS Box DBCS support using U.S. drivers that do not recognize DBCS characters.

Windward Studios Boulder, CO 1994 – 1997, 2001 – 2003

- Windward Reports (see java section) includes a .NET client written in C# that provides access to the report server over the network.

- Architected, designed, and wrote a personal firewall – DefendTek (www.DefendTek.com). Composed of a device driver (written in assembler and C), a service (written in C++), and an application (written in C++ with MFC).
- The firewall is a TDI layer driver that inspects all TCP and UDP packets and allows or fails all connections based on the packets: protocol, direction, port, application on the local machine, and remote IP address.
- Architected, designed, and wrote a word processor for screenwriters – Page 2 Stage (www.Page2Stage.com). Written in C++ with MFC.
- Page reformatting is handled in the app in a background thread that is constantly reformatting the document as the user edits it.
- Designer, producer, technical lead, and developer for Enemy Nations – www.EnemyNations.com. Enemy Nations is generations ahead of its' competition delivering 24-bit art at resolutions higher than 1280x1024, network support for all major protocols, and a depth of game play far greater than anything else in it's genre. Written in C++ with MFC.
- This included writing: a pre-emptive multi-threader for Win32s; a combat engine that could handle the latency of the Internet with no degradation seen by the user; a user interface that is intuitive to a Windows user but that looks like a game, not like Windows; creating a single threaded means of interrupting the message pump to keep game response and rendering fast without the overhead of critical sections, and much more.

7th Level Richardson, TX 1994

Senior Developer

- Wrote the program that creates a common palette for the 32-bit images used in a scene and then dithers the 32-bit images down to 8-bit using the common palette. Written in C++.
- Wrote most scripting for several of the main scenes in Monty Python's Complete Waste of Time. This includes not only determining how to use the content provided for the product but also defining (and in some case creating) new content to be added.

TranSoft, Inc. Lakewood, CO 1985 – 1989

Software Developer

- Sole developer of Co-Counsel, a litigation support program for the IBM-PC. At the ABA Litigation Support Shoot-out, Co-Counsel was used as the standard of measurement.
- Co-Counsel is a very large text database that handled proximity searches by word, line, sentence, or paragraph. The documents are pre-indexed so that the searches were very fast. The system also allowed hyper-links and annotations.
- Also wrote a report language (interpreter) to generate all of the reports for the system.

DTS, Inc. Denver, CO 1983 – 1985

Software Developer

- Sole developer of the initial version of the company's product; a computer-aided transcription system for court reporters. Written in C to run on DOS.
- This program included a full-featured word processor with special additional capabilities. It also included substantial telecommunication abilities, as well as both batch and real time translation to English.

EDUCATION

University of Colorado Boulder, CO

- Bachelor of Arts in both Physics and Mathematics