

Tres Seaver

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[Agendaless Consulting](#) specializes in building large, custom web applications using a collection of technologies, centered around [Zope](#) and [Plone](#) . .

Employment History

2006 - Principal, [Agendaless Consulting](#)

2005 - Proprietor, [Palladion Software](#)

2000 - 2005 Senior developer, [Zope Corporation](#)

See a [summary of relevant projects](#) as well as [presentations](#) to various conferences and technical user groups.

1997 - 2000, Proprietor, [Palladion Software](#)

See a [summary of relevant projects](#) as well as [presentations](#) to various conferences and technical user groups.

1990 - 1996 Senior consultant, [MACRO Enterprises, Inc.](#)

See a [summary of relevant projects](#) as well as [presentations](#) to various conferences and technical user groups.

1987 - 1990 Teacher, [Awty International School](#)

I taught high-school and middle-school history and mathematics in a multi-lingual, multi-cultural setting: approximately half my students were working in English as their second or third language.

Education and Expertise

Rice University

Bachelor of Arts (classical/medieval history) 1987 (awarded 1988).

Borland Certified Delphi Client/Server Developer

This certification exam covered all phases of client-server development with Delphi, including component design, database management issues, and team development. I passed the exam on my first attempt, one of only 42 people in the country to pass the exam during its beta-testing phase. April, 1996.

Founding President, [Houston Association of Delphi Professionals](#)

Seeing a need for a forum in Houston for professional Delphi developers, I worked with Borland and other interested individuals and companies to establish HADP in January, 1996. By the end of its first year, the group had more than 70 paid members, and had attendance between 50 and 180 people each month. After serving as Secretary for the 1997-98 and 1998-99 election terms, I served again President of the group for the 1999-2000 term.

Representative Project Experience

Web Application Developer / Project Lead

- For a secure storage application service provider, implemented a SQL-based recurring billing system, include prorata billing, credit card integration, etc. Also implemented an application for managing users' emergency medical information, and making it available to medical personnel via an access code.

Zope2 + Five + PostgreSQL

- For a major medical information portal, reimplemented the public-facing delivery system for a site using a Plone-based CMS, in order to improve both the performance and the stability of the site. Designed and implemented the content migration strategy for migrating from the legacy system.

Plone + Zope2 + Five + MySQL

- Replaced the online classified ad system for a nationwide, multi-site media company. The new system included anonymized, "drop box" replies to ads, as well as custom subscriptions which notified the user of new items matching user-specified search criteria.

Zope + CMF on Solaris

- For the same multi-site media company, built their next-generation content management system, including complex user-specified workflow, pages composed through-the-web from existing content assets, and scheduled content replacement / expiration.

Zope + CMF on Solaris

Product Manager

- In conjunction with the staff of the leading regional portal in the US, evolved the Zope4Media product to accommodate high-volume content feeds (tens of thousands of syndicated wire stories per week, along with thousands of stories per week from the partner newspaper). Coached internal Zope development staff and client's software development staff in a variety of topics, including agile development methodology, object oriented framework design, and software reuse.

Zope + CMF + Zope4Media on all platforms supported by Zope

- Over four years, evolved the nascent "Portal Toolkit" effort into the Zope Content Management Framework. Managed contributions from dozens of community developers; enabled the development of higher-level products and platforms (Plone, CPS, Zope4Media, Zope4Intranets) through close coordination with those projects' lead developers. The product is currently late in the release cycle for its fifth stable release.

Zope + CMF on all platforms supported by Zope

Software / Distributed Systems Architect

- Constructed a new framework for implementing clients to an industry-leading real-time financial and commodity price reporting system. Client application developers need not learn the vendor's complex API, but merely subclass and extend two simple interfaces defined by the framework.

C++ on Solaris

- Rearchitected a rate-capture and computation system to ease integration with client systems. The new system delivers both prices and their derivations to clients, and allows the clients to poll or subscribe for real-time notification of "interesting" points on energy commodities curves.

Middle-tier development using Java 1.1 and OrbixWeb 2.0.1 on NT and Solaris.

- Laid out the architecture and designed key infrastructure for a mission-critical energy-trading and risk-management system. This system leverages CORBA technologies to create a scalable, high-throughput deal entry and position management environment for the client's traders and analysts. Designed the fault-tolerance architecture for the distributed servers, as well as the "object-by-value" streaming architecture (the CORBA object-by-value specification was adopted 18 months after the project's inception).

Middle-tier development using Orbix, OrbixTalk, and SPARCWorks C++ on Solaris

GUI bridge on NT using Orbix, VC++ and Delphi.

- Designed and built the multi-threaded Orbix server which managed views of traders' aggregated positions. This server listens actively for changes to the trader's portfolio, recomputing the various views and pushing them out to the position manager GUI in "near real time".

Orbix, OrbixTalk, and SPARCWorks C++ on Solaris.

- For a large producer-neutral energy trading system, built the framework for porting the prototype from X-windows Microsoft Windows, with minimal changes to the domain-specific code of the prototype. Extended the framework to incorporate full functionality of the production release. Mentored functional programming team in Windows programming skills and the framework.

Client-side: Borland C++ and Winsock on PC's

Server-side: Tuxedo and Oracle on Sequent/Dynix

- Constructed toolkit for a Windows-based process monitoring / operator interface for embedded turbine / compressor control systems. Designed classes for real-time display of analog and discrete data, including digital readouts, graphical "switches", real-time trend graphs, and faceplates for tuning process-control loops. In addition, the application is internationalized, running in Russian, Chinese, and English, with data-driven capability for adding others.

Borland C++ and OWL, Windows 3.1/Workgroups/NT.

Expert-Systems Developer

- Built a knowledge-based dispatching application for scheduling railroad tank cars through large chemical plants. The application takes into account chemical compatibility between prior and current tank contents, cleaning requirements, and varying availabilities of cars. After deploying this application, the client was able to reduce from four to one full-time dispatchers, producing significantly smoother schedules. This application has been in daily production use for two years with only minor cosmetic modifications.

Aion (the expert-systems tool), Windows and AS/400.

- In conjunction with a team of environmental specialists and software developers, built a suite of knowledge-based applications which utilized field survey data to evaluate environmental exposure, current and future regulatory compliance costs, and site reclamation costs. The projections from these models allowed the client to prioritize reclamation and production plans for the surveyed facilities over a five year period.

Aion, DOS.

Product Designer

- For a major distributor of wire and panel marking products, built a wirelist-management and marking system. Although originally intended to be distributed *gratis* with the labels, the distributor discovered that he could profitably sell the application, even to prospects who bought his competitor's labels.

Borland C++ using TurboVision, DOS

- Designed and built the Electronic Data Interchange (EDI) interface for a pipeline management package. The interface read EDI requests and queried the database for matching data, formatting the data for outbound EDI transmission.

Gnu C++, Tcl, and Sybase on Sun Solaris.

Database Systems Designer

- In close coordination with environmental domain experts, designed and built a multi-user database application to manage site survey and sampling data for mercury remediation of hundreds of pipeline meter stations. The application allows construction of multiple prioritization models, each with unique weighting for factors such as soil type, groundwater, proximity to population, etc.

Paradox for Windows, Windows 3.x.

- For a major gas marketing company, converted and enhanced their retail gas marketing / imbalance management application from a DOS-based product, which would not run reliably on their newly configured desktops.

Windows '95, Access 7.0.

Client/Server Development Trainer

- Taught a five-day Delphi programming class to a group of mixed managers and programmers at a major bank, with all students completing the course objectives successfully.

Delphi Client/Server 2.0, Windows NT.

- Trained a major chemical processing company's development team, using the same five-day curriculum for Delphi programming. By the end of the class, the students were successfully constructing and sharing custom components which monitored their real-time production database.

Delphi Client/Server 1.0, Windows NT.

Presentations

- [Introducing CMF 2.0](#)
Presentation, Second North American Plone Symposium, 9 March 2006
- [New Tools for Testing Web Applications with Python](#)
Presentation, PyCon 2006, 25 February 2006
- [CMF 2.0: Advancing the Platform](#)
Presentation, Third Plone Conference, 19 - 21 September 2005, Vienna, Austria
- [Zelenium: Browser Testing for Zope](#)
Presentation, North American Plone Symposium, 20-22 July 2005
- [EuroPython 2005: Zope Track Keynote](#)
Keynote presentation and panel discussion moderator, EuroPython 2005, 27-29 June 2005, Göteborg, Sweden
- [Zelenium: Browser Testing for Zope](#)
Presentation, Inaugural meeting of the Fredericksburg Zope-Python Users' Group, 8 June 2005
- [From CMF to Zope 3: Lessons Learned, Future Directions](#)
Presentation, Second Plone Conference, 20-22 September 2004, Vienna, Austria
- [Don't Fight the Framework: Best Practices for CMF / Plone Development](#)
Presentation, Second Plone Conference, 20-22 September 2004, Vienna, Austria
- [Content Management in Zope + CMF](#)
Tutorial, Third Open Source Content Management Conference, 28 May 2003, Cambridge, MA
- [From CMF to Zope 3: Lessons Learned](#)
Presentation, Deutschesprachige Zope User Group, 29 March 2003, Berlin, Germany
- [Zope 3 DZUG Sprint](#)
Sprint chair / tutorial leader, 27 - 27 March 2003, Berlin, Germany.
- [Zope 3 workflow sprint](#)
Sprint chair / tutorial leader, 2-6 March 2002, Saarbruecken, Germany.
- [10th International Python Conference](#)
Chaired the Zope Track at the conference, including recruiting and scheduling speakers, 5-6 February, 2002, Alexandria, Virginia.
- [Building Websites with Zope CMF](#) (slides)
Half-day tutorial, 10th International Python Conference, 4 February 2002, Alexandria, Virginia.
- [Content Management with Zope CMF](#) (slides)
Presentation, O'Reilly Open Source Convention, 2 August 2001, San Diego, California

- [Building Websites with Zope CMF](#) (slides)
Half-day tutorial, O'Reilly Open Source Convention, 29 July 2001, San Diego, California
- [Content management in half the time](#) (notes)
Presentation, D.C. XML / SGML Users' Group, 21 March 2001, Washington, DC
- [The Snake in the Temple: Embedding Python in Delphi](#) (full HTML presentation, with source)
Presentation, Houston Association of Delphi Professionals, January 1999, Houston, Texas
- [Design Patterns in the VCL](#) (full HTML presentation, with source).
Presentation, Houston Association of Delphi Professionals, and Austin Delphi Users' Group, March/April 1998, Houston and Austin, Texas
- [The ABC's of OOP in Delphi](#) (full HTML presentation, with zipped source)
Presentation, Houston Association of Delphi Professionals, March, 1997, Houston, Texas
- [Constructing Internet Applications with Delphi](#) (60 Kb ZIP file of PowerPoint slides).
Presentation, Borland Client / Server Seminar, March 1996, Houston, Texas
- [Under the Hood: Internet Applications with Delphi](#) (5 Kb ZIP file of Delphi source and INI and HTML files).
Presentation, Houston Association of Delphi Professionals, March 1996, Houston, Texas
- [Top 10 Reasons Why a Dyed-in-the-Wool C++ Programmer Should Even Care about Delphi](#)
Plus the freeware directed-acyclic graph [components](#) I demonstrated there.
Presentation, Houston Area C++ SIG, July 1995, Houston, Texas

Programming Languages / Environments

- [Python](#)
- C++
- Java
- [Delphi](#)
- Pascal
- HTML
- JavaScript
- CSS
- XML
- Paradox
- Aion
- Visual Basic/VBA

Application Development Platforms

- [Zope](#)
- CORBA
 - [Orbix](#)
- [ACE/TAO](#)
- [Visigenics](#)
- [Fnorb](#)
- COM/DCOM

Database Platforms

- Oracle
- Sybase
- PostgreSQL
- MySQL
- Interbase
- SQL Server

Operating Systems

- [Linux](#)
- [FreeBSD](#)
- SunOS / Solaris

Networks and Protocols

- TCP/IP
- HTTP / FTP / SMTP / POP / NNTP / IRC
- Netware (IPX/SPX)
- Microsoft Network / LAN Manager (NetBEUI)
- Samba

For more information, send email to: tseaver@palladion.com