

Peter M. Traub

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Objective

To find contract opportunities in software development, website management, and database administration while I complete my Ph.D.

Qualifications Summary

6 years experience with OO Perl, Linux/Unix, and HTML.

4 years experience with SQL/MySQL, CGI, ModPerl, and CVS.

2 years experience with Javascript, Apache.

1 year experience with LDAP, PostgreSQL, Python, C++, Perl Mason.

1 year experience with Windows NT/2000 Administration.

Work Experience / Education

*Ph.D. student (expected 5/10), Composition and Computer Technologies (9/04 – present)
University of Virginia, Charlottesville, VA*

Focusing on utilization of streaming and networked audio for musical performance and interactivity.

Dissertation concerns the use of physical, virtual, and hybrid spaces as musical materials.

Vindicia, Inc. (1/04 – 7/04)

Title: Software Engineer

San Mateo, CA

www.vindicia.com

Implemented a scalable OpenLDAP-based authorization system to control internal and external access to Vindicia's servers. LDAP database was synchronized with a central Postgres database (utilizing Perl modules) and used database replication to synchronize between the master authorization server and individual LDAP servers running on workstations, web servers, and database servers.

Designed an automated system that parsed daily data feeds from clients, analyzed them, and converted them to human-readable formats.

The Betty Mills Company (6/02 – 1/04)

Title: Software Development Manager

San Mateo, CA

www.bettymills.com

Sole technical lead and systems administrator for The Betty Mills Company. Responsibilities included: Back and front-end development of retail website, maintenance and backup of Linux-based production webserver, development of MySQL database, internal system administration of 10 Win2000 workstations, a file server, and a Linux workstation.

Designed and implemented User concept for BettyMills website. Original software package lacked ability to create or track users. Designed OO-based Perl libraries and CGIs to allow users to sign up, login, and view previous orders and invoices.

Imported and loaded large catalog data feeds from various vendors. Shoehorned data feeds to fit back-end data model.

Designed and wrote new database-driven features for the live site, as well as back-end administrative features to streamline customer service, sales, and accounting.

Cogneo (3/02 – 6/02)

Title: Web Applications Engineer (contract)

San Mateo, CA

Wrote and integrated OO Perl applications using the Perl Mason library. Mason objects combine HTML and Perl to create highly efficient server-side scripts and dynamic pages.

Administrated sites for numerous clients, primarily using the Verio Virtual Private Server platform. Responsibilities included: log backups, generating statistics, troubleshooting, server migration.

Zack Systems (9/99 – 8/01)

Title - Senior Software Engineer

San Mateo, CA

Designed, specified, and wrote software for the Zack Proxy Platform, a means by which ISPs could create value for their users and generate revenue. Placed in an ISP's network, the Zack Proxy could deliver enhanced services to users without requiring any client-side software. Services included virus scanning, content filtering, shared browsing, and navigation tools.

Application development Project Manager for Zack's key Enhanced Services Server.

Created database driven front and back-end applications and libraries for the Zack

Proxy Platform utilizing OO Perl, CGI, MySQL, Javascript and HTML.

Designed, specified, and wrote a shared browsing and chat application, allowing multiple users to enter a single chat room and browse the web via a linked browsing mechanism. User session status was monitored on a per-request basis and content inserted into appropriate requests. CGIs and Javascript were used to drive the UI and manage database interactions.

Designed and developed a browsing-context-sensitive product review application incorporating third party data feeds. Designed database tables to optimize search functionality and wrote data accessing and retrieval subroutines to provide best-match keyword searches. UI driven by CGIs, Perl modules, and Javascript.

M.A., Electro-Acoustic Music (6/99)
Dartmouth College, Hanover, NH

Concentration in audio for the Web and sound synthesis programming

Master's Thesis was an online sonic installation, 'bits & pieces,' that searches the Web for sound files, downloads and processes them, and streams the results back over the Web via mp3

Electronic music performed at major festivals.

B.A., English (5/97)
University of Florida, Gainesville, FL

Degree Concentration in creative writing, theory and criticism

Concentration in electronic music composition and technology

Awards and Honors

- Recipient of University of Virginia "Excellence in Scholarship" Award, 2008
- Recipient of Jefferson Fellowship at University of Virginia, 2004 - 2008
- National Merit Scholar
- Florida Undergraduate Scholarship
- University of Florida Alumni Scholarship
- Member of Golden Key National Honor Society
- Member of Sigma Tau Delta English Honor Society
- University of Florida Phi Beta Kappa Creative Achievement Award Recipient, 1997
- Graduated Magna Cum Laude from University of Florida
- Full-tuition scholarship to Dartmouth College Graduate Program

Letters of recommendation, employment references and code samples available upon request.