
Optiron (now defunct) (Pittsburgh, PA)

Senior Software Developer (11/2000-9/2004)

Developer leading company to augment existing VisualBasic/MS SQL Server architecture with web technology using Java with projects like:

Payment Center: Greenfield **internationalized Spring webapp** for cashiers at satellite Mexico payment centers to take customer payments in a high-volume environment, including financial management interface.

Readi Online: Web-based portal for natural gas customers to browse account information, view and pay bills, and enter meter reads.

intes.net (Silver Spring, MD · <https://www.digitalindustry.com/>)

Senior Internet Developer (founding member) (3/1998-11/2000)

Developed an open-source, object-oriented application server (**OpenInteract**) with robust data abstraction tools, developer-friendly API, and extensible architecture. Implemented for clients a number of applications and sites running on the framework, both public and internal. Created many internal webapps and sysadmin tools.

IREX (Washington, DC · <https://www.irex.org/>)

Webmaster (2/1997-3/1998)

Created intranet site enabling grant reporting for employees in DC HQ and former Soviet Union, integrating 600+ flatfile databases with 40,000 global contacts to single **Sybase SQL Anywhere** platform running on **Perl** and **IIS**. Also maintained company website and created public products database with simultaneous Russian/English search and display capabilities running on **miniSQL** and **Perl** on **Apache**.

CTAA (Washington, DC · <https://www.ctaa.org/>)

Writer/Webmaster (8/1995-2/1997)

Created three websites, one a finalist in worldwide competition. **Wrote Perl CGI** programs for end users to register for events and order publications. **Taught transit professionals to use the Internet** and its potential benefits to their systems. Sysadmin for Netware LAN and GroupWise; wrote and edited articles for *Community Transportation Reporter* and other technical reports, primarily on technology issues.

Montgomery County Planning Department

(Silver Spring, MD · <https://www.mncppc.org/>)

Transportation Planner (8/1993-8/1995)

Editorial member of planning teams that covered regional areas of the 800,000+ person county. **Wrote and edited master plans**, policy guidelines and memos presented to the five-person Planning Board, and created multimedia presentations for Board, public, and

staff. **Earned a performance award** in 1994 for teamwork and overall excellence. **Worked with citizen group** to plan long-term transit goals.

Institute of Public Policy, George Mason University (Fairfax, VA)

Research Assistant (8/1992-6/1993)

Edited papers and performed research for political sociologist Seymour Martin Lipset. Adapted short speech into article published in *American Sociological Review*. Helped edit chapters in Jews and the New American Scene, co-authored with Earl Raab.

Other work

Presentation highlights:

- 2019: "Feedback Loops Between Tooling and Culture", Pittsburgh Techfest ([slides](#))
- 2017, "Why should I care about Docker?", Erie Day of Code ([video](#))
- 2016, "Microservices: Moving stuff around", Pittsburgh Techfest ([slides](#))
- 2015, "Session-based Load Testing", Pittsburgh Techfest ([slides](#))
- 2014, "Unretrofittable – Starting off Right", Pittsburgh Techfest ([slides](#))
- 2013, "Database Sharding", with Carol Nichols, Pittsburgh Techfest
- 2004, "Building Applications with OpenInteract2", YAPC 2004
- 2001, "OpenInteract, An Extensible Web Application Server", YAPC 2001
- 1999, "DBI: Perl and Databases", YAPC 1999