

# CHRIS WINTERS

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## PROJECTS

### **3/2006–present Software Architect**

Vocollect Healthcare Systems · Pittsburgh, PA · <http://healthcare.vocollect.com/>

Lead architect and developer on product enabling voice-assisted care at nursing homes. Worked closely with clinical specialists to design features, including managing the data documented by voice made available for reports, analysis for alert conditions, auditing by state surveyors. Main application centered around **Spring** through which we defined services to talk to the outside world, including an embedded **Jetty** web server, socket data interface (using **MINA**), integration with third-party clinical software packages, reporting engine (**JasperReports**); heavy use of **Hibernate** and caching on both **Solaris/PostgreSQL** and **Windows Server/Microsoft SQL Server** platforms

### **6/2005–3/2006 Software Developer**

Vocollect · Pittsburgh, PA · <http://www.vocollect.com/>

Sole developer on small team focused on finding new markets for existing products and prototyping new wearable computers enabling voice-directed work. **Created standalone middleware** geared toward rapid application development to serve and process data from wearable workflow system and key member of team translating business need investigations into usable products.

### **9/2004–6/2005 Software Test Engineer**

Vocollect · Pittsburgh, PA · <http://www.vocollect.com/>

Leader in **testing automation**, including a Java-based web and SOAP scenario testing framework that allowed non-developers to automate manual tests and a tool that enabled high-level network emulation of many concurrent wearable computers using scriptable Java components. Using this and other tools we migrated 75% of previously manual tests to automated systems, allowing for consistent testing across versions and quicker QA turnaround time for development releases.

### **11/2000–9/2004 Senior Application Architect**

Optiron Corporation · Pittsburgh, PA · <http://www.optiron.com/> (defunct)

Developer leading company into n-tier technology, represented by several projects: **Payment Center**: Created internationalized webapp for cashiers at satellite payment centers to take customer payments in a high-volume environment, including financial management interface. **Home Genie**: Created web services and scheduled report data jobs for third-party web application to send transactional requests to and receive XML data from client/server system. **Readi Online**: Created webapp for customers to browse utility account information, pay bills, and enter meter reads.

**3/1998-11/2000 Senior Internet Developer** (founding member)  
intes.net · Silver Spring, MD (now: <http://www.digitalindustry.com/>)

Developed an object-oriented web application server (**OpenInteract**) with robust data abstraction tools, developer-friendly API, and easily extensible architecture. Implemented for clients a number of applications and sites running on the framework, both public and internal. Also created many Perl webapps for internal sites, sysadmin tools to manage LDAP address books, implemented cross-platform data replication using Sybase tools, and administered wide variety of Win32 and Linux services.

**2/1997-3/1998 Webmaster**  
IREX · Washington, DC · <http://www.irex.org/>

Created intranet site to fulfill requirements for grant reporting, providing centralized information for 80+ employees in DC HQ and 50+ people in former Soviet Union. We integrated 600+ flatfile databases with 40,000 global contacts into a single relational model on a **Sybase SQL Anywhere** platform running on Windows NT with **Perl** and **IIS**. Also maintained the company website and created public products database with simultaneous Russian/English search and display capabilities running on **miniSQL** and **Perl** on **Apache**.

**8/1995-2/1997 Writer/Webmaster**  
CTAA · Washington, DC · <http://www.ctaa.org/>

**Created three websites**, one a finalist in worldwide competition. **Wrote Perl CGI** programs for end users to manipulate calendar events, register for events, order publications, etc. **Taught transit professionals to use the Internet** and its potential benefits to their systems. Sysadmin for Netware LAN; wrote and edited articles for *Community Transportation Reporter* (10,000 circulation; 9/year) and other technical reports, primarily on technology issues.

## TECHNICAL SKILLS

- **Langages:** Java (up to v6), Perl, JavaScript (browser, Rhino), SQL (generic/T-SQL/PostgreSQL), shell
- **Frameworks:** Java Servlets (Tomcat/Jetty), JSP, Spring, Struts 1/2, Hibernate, Quartz, AJAX (MochiKit, jQuery, raw), JDBC, JMS, JMX, JTA, JBoss, EJB 1.1/2.x, XML (SAX/DOM/XPath), OpenInteract, SPOPS, mod\_perl, Template Toolkit, Wiki
- **Development Infrastructure:** IntelliJ IDEA, Ant, Emacs, Maven, make, Perforce, CVS (admin/client), Subversion (admin/client), Nullsoft Installer, Visio, JIRA, UML
- **Testing Infrastructure:** TestNG, JUnit, HttpUnit, EasyMock, MockObjects, WWW::Mechanize, Test::More, Test::MockObject, DBD::Mock
- **Databases:** PostgreSQL (Win32/Unix), Microsoft SQL Server, MySQL, SQL Anywhere, Sybase ASE, SQLite, H2/HSQLDB (incidental: Oracle, Firebird SQL)
- **Operating Systems:** Linux, Solaris 10/11, Windows 95/98/NT/2000/XP, Mac OS X
- **Servers:** HTTP (Apache [Unix/Win32], IIS [Win32], Tomcat), SMB (Samba), SMTP (Sendmail), POP/IMAP (Cyrus), SSH (OpenSSH), LDAP (OpenLDAP), DNS (BIND)

## EDUCATION

B.A., History (minor in Computer Science), *cum laude*, University of Pittsburgh, 1992