

Tim Howe

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- SKILLS
- ◇ Common Lisp, Java, C, 80x86 assembly, BASIC, C++, C#/.NET, ECMAScript, PHP, Pascal, Perl, Prolog, Python, SQL, Scheme, Tcl/Tk
 - ◇ HTML, XML, CSS, L^AT_EX
 - ◇ Unix shell scripting, DOS batch file scripting, Windows NT scripting
 - ◇ FreeBSD, Linux, SunOS, Solaris, DOS/Windows, Windows NT, Mac OS, Mac OS X, QNX, PalmOS, VMS
 - ◇ Apache, Postfix, Courier, Sendmail, Mailman, Subversion, OpenLDAP, OpenSSL, Active Directory, Exchange
 - ◇ Project management, fluent English
- RESEARCH INTERESTS
- ◇ Advanced document generation, parsing, semantic translation
 - ◇ Latent conversation metadata mining
 - ◇ Memoization of dynamic content
 - ◇ Integration of technology into areas of education and project management
- RESEARCH PROJECTS
- ◇ Pinot Web application framework
 - ◇ Scutumator test management system
- WORK EXPERIENCE
- ◇ **Computer Sciences Corporation**, Orlando, FL (July 2005 – present)
 - Custom Solaris x86 distribution for internal client use
 - Tested OS on specified systems and resolved hardware compatibility issues
 - Wrote graphical network connection tool; received good reviews from all users and significantly reduced support requests
 - Customized Punchin VPN tool to integrate with firewall changes
 - Packaged other third-party software to integrate with internal security and software distribution tools
 - Work with colleagues to improve process
 - Responsible for managing and training others on Subversion version control server
 - Designed repository layout to handle orthogonal issues of tracking changes to a codebase as well as progress on individual project requests
 - Collaborating with other tool authors to provide an integrated and consistent interface
 - Customize and distribute other software according to client request
 - Create and track project plan based on client requests
 - Obtain proper versions of software to be distributed, including compiling and patching if necessary to requirements
 - Coördinate testing and documentation, and provide training

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- ◇ **Quadium Technology, LLC**, Orlando, FL (August 2006 – present)
 - Own and operate company
 - Repository and incubator for software development
 - Technology consulting services
- ◇ **Celebrity Resorts**, Orlando, FL (February 2004 – August 2006)
 - Web integration with property management system
 - Designed architecture, managing project, and acted as principal engineer
 - JCA connector to allow app server to manage licenses for proprietary DB backend
 - Compiler which reads Java classes and produces PHP stubs which transparently use XML-RPC, allowing the Web programmers to develop independently
 - Abstraction API which transforms COBOL structures and calling conventions into Java-style objects and APIs
 - Created individual Web-based tools for internal use; later merged these tools into a single intranet site with tight integration between modules
 - Created tools to manage company directory, including a meta-directory with intelligent updates to avoid issues with Exchange directory integration
 - Created sales and contract management system; provided Web-based front end and output ready-for-print contract documents on demand
 - Created call center system to manage outbound call campaign, correlate communication with callees, and provide legally defensible digital signatures; system was created on short notice and proved extensible later on; availability of software was directly implicated in retaining \$millions in service contracts
 - Managed `share.celebrityresorts.com` community development site
 - Fully managed FreeBSD 4 and 5 servers providing Web, mail, database, version control, and other services
- ◇ **Leisure Resorts / Celebrity Resorts**, Steamboat Springs, CO (October 2002 – February 2004)
 - Created and enforced document retention policy
 - Enhanced night audit software
 - Wrote scripts to automate report generation
 - Created report and audit rotation and archival system
 - Wrote custom gift shop management software
 - Inventory and cash flow tracking
 - Audits, vendor order management, shrink reporting
 - Internal audit functionality to verify double-entry bookkeeping
 - Utilized C++ with Berkeley DB and wxWindows (now wxWidgets)
 - Created system to manage all front desk functions when during transition between property management systems
 - Tracked guest check-in/out, housekeeping functions, room charges, and cash flow
 - Provided export of all data into the new PMS system, allowing for a seamless transition
 - Utilized Common Lisp server and Java/Swing client
- ◇ **Office Depot**, Broomfield, CO (August 2001 – July 2002)
 - Created and maintained custom PalmOS software to assist in:

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- Pricing and labeling audits
- Stocking and locating merchandise
- SKU/UPC integrity verification
- ◇ **Wego Systems**, Redwood City, CA (July 2000 – May 2001)
 - Designed, implemented, and documented new product features and feature enhancements
 - An extensible Web-based interface to upload and unpack archives, featuring intelligent preprocessing
 - A module for importing a third-party site into the portal framework, including security checks, link rewriting, and segregation of dynamic media
 - Enhanced the file-sharing mechanism, adding many more usability and file management features
 - Made significant enhancements to the directory feature upon client request
 - Integrated client’s advertising system into portal framework
 - Acted as liaison with QA team to maintain production code branch
 - Provided internal resources
 - Created a Common Lisp package to analyze and report on version control logs
 - Configured and packaged the server platform for use in setting up new clusters
 - Set up and tested a demo server for trade shows, established a secure tunnel for remote access, and provided support while the server was in use
- ◇ **Sun Microsystems**, Broomfield, CO (June 1999 – July 2000)
 - Architected expansion and improvement of legacy systems
 - Comprehensive design for transition of software management center into multiple-tiered Web-based system
 - wrappers and improvements for client-side distribution software
 - Created internal tools to aid productivity and reliability
 - Java servlets to manage release and announcement of new packages
 - Java application suite to monitor lab and production server availability
 - Common Lisp package to display free-form startup dialogs and verify system patch status
 - Packaged vendor software for internal distribution on Solaris, GNU/Linux, and Windows systems; performed testing and created utility and wrapper scripts
 - Provided support for coworkers, including training and system integration work

PUBLICATIONS Early Binding in Java Considered Harmful. March 2000.

- EDUCATION ◇ **Standley Lake High School**, Broomfield, CO (1998–2000).
Advanced science and English classes.
- ◇ **14th International Conference on Software Quality**, Orlando, FL.
- ◇ **“Mature Software Project Management” seminar**, Orlando, FL.

- PROFESSIONAL
MEMBERSHIPS ◇ Association of Lisp Users
- ◇ American Society for Quality (Orlando section, software division)
- ◇ SAGE

REFERENCES Available on request.