

# Gerard T. Lum

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<http://GerardLum.com>

## Job Objective

Development of attractive, well-designed websites and database programs using PHP, MySQL, HTML, CSS, JavaScript, Visual Studio.NET, Visual Basic, and related tools.

## Experience Highlights

- **Stanford Center for Professional Development:** stepped in for retiring webmaster: created/maintained content (html) and web applications (ASP/SQL Server) including registration for courses/webinars/events, student community, mailing lists, etc.
- **Website Design:** produces websites for small businesses and nonprofit organizations. The website for Citizens Concerned About Chloramine ([chloramine.org](http://chloramine.org)) spurred articles and public awareness about the water disinfectant. For more links, see <http://GerardLum.com>.
- **User Interfaces with Visual Basic:** developed UI's and database programs for the restaurant industry, including Employee Timekeeping, Employee Scheduling, Employee Database, and Reporting on all aspects of restaurant operation. Emphasized reliability and ease-of-use.
- **Software Development:** accustomed to taking a lead role in development: meets with users, develops prototype, and refines until done. Worked closely with engineers to develop engineering computer programs in areas including water resources, hydropower, railroad engineering, structural analysis, and graphic displays. Worked with new users.
- **Writing:** produces newsletter for a nonprofit (since 1990, see [peninsulamacro.org](http://peninsulamacro.org)). Produced computer program documentation in both print form and as Windows Help files. Reduced computer training burden by writing popular user guide to an engineering computer.

## Programming Languages and Computers

Languages: PHP, MySQL, HTML, CSS, JavaScript, SQL, XML, Java, Perl, ASP, SQL Server, Visual Basic.NET, Visual Basic, C, C++, FORTRAN (77, IV), PL/I.

Computers: PC (Windows XP, NT 4, 95, 3.x; DOS), HP 9000 (HP-UX), and more.

## Work Experience

**Website Designer**, Contract Work for Stanford University 2006 - present  
Option 1 Staffing, Los Altos, CA.

- Stanford Center for Professional Development, May 2007 - present: stepped in for retiring webmaster, creating/maintaining web applications as needed. Processed extensive website content into html and jsp files for completely new SCPD website, <http://scpd.stanford.edu>.
- Stanford Residential and Dining Enterprises, October 2006: updated website of residential facility as requested, with new text and photographs, and fresh look and feel.

**Website Designer** 2002 - present  
Self-Employed, Mountain View, CA.

- Designs and maintains websites, some with extensive use of photography, for small businesses and nonprofit organizations. For links, see <http://GerardLum.com>.

**Software Engineer**, Restaurant Software in Visual Basic/Access. 1997 - 2001  
Sable Technologies, Inc., Hayward, CA.

- Took lead role in modernizing/upgrading restaurant software by creating well-designed GUI applications with VB, usable by non-technical staff. Emphasized reliability and ease-of-use.
- New applications included Timekeeping/Tips, Scheduling of Employees, and Reporting; upgraded applications included Employee Database and Setup of Jobs and Departments.

**Developer**, GUI Development using Visual Basic/Access. 1994 - 1997  
Myers-Holum, Inc., San Bruno, CA.

- Key member of a team developing VisualSuite, a client/server GUI for the CA-Masterpiece Accounting Program.
- Major contributions included automated generation of all code modules to transfer records between client and server, and automated linking of thousands of controls to related topics in context-sensitive Windows Help files.
- Involved in many aspects of a large project with shifting priorities; used Visual Basic, Access, C, SQL, Windows API, Crystal Reports, and RoboHelp.

**Engineering Specialist**, Hydraulics/Hydrology Group. 1992 - 1993  
Bechtel Corporation, San Francisco, CA.

- Performed various engineering analyses including prediction of probable maximum floods entering reservoirs, hydropower simulations, and statistical studies of rainfall data.
- Produced well-written project reports which became templates for later reports.
- Managed HP 9000/375 (HP-UX); on phase-out, archived years of engineering project data from proprietary HP tape format to widely-readable media.

**Contract Programmer**, Database Applications. 1990 - 1992  
Various Software Companies, San Francisco Bay Area, CA.

- Developed various database applications using C on Unix and DOS.

**Associate Principal Programmer/Analyst**, Engineering Applications. 1980 - 1990  
Morrison-Knudsen Engineers, Inc., San Francisco, CA.

- Worked closely and synergistically with engineers to develop well-designed application programs; areas included water resources, hydropower, railroad engineering, structural analysis, and graphic displays.
- Promoted proper application by emphasizing ease-of-use, clear output, and thorough testing.
- Reduced computer training burden and promoted use by writing and distributing popular user guide to the company computer. Managed MicroVAX II (VMS) for engineering users.

## **Education**

M.S. in Civil Engineering (Environmental Engineering). Stanford University.

B.S. in Civil Engineering (Water Resources). Massachusetts Institute of Technology.

## **Affiliations and Awards**

Newsletter Editor (since 1990), and Member of Board of Directors, of Nonprofit Organization.

## Representative Websites Developed by Gerard T. Lum

- **Gerard T. Lum: Website Design, Software Development, and Photography**  
<http://gerardlum.com> (the Website Design section includes links to websites)
- **Stanford Advanced Project Management**  
<http://apm.stanford.edu>
- **Samuel Sinnott & Company, Architecture and Construction**  
<http://www.sinnottandco.com>
- **Common Ground Organic Garden Supply and Education Center**  
<http://www.commongroundinpaloalto.org> (CSS for layout)
- **Flash Presentation, French Meadows Summer Camp**  
<http://gerardtl.home.att.net/flash/summercamp.html>
- **Citizens Concerned About Chloramine**  
<http://chloramine.org> (CSS for layout)
- **Lorinda Menchavez Art Works**  
<http://lorindaart.com>
- **The Friends Of Foothills Park**  
<http://friendsoffoothillspark.org>
- **MaderGreen Gardening Services**  
<http://madergreen.com> (CSS for layout)
- **Macrobiotics America (includes online store implemented in PHP/MySQL)**  
<http://www.macroamerica.com>
- **Final Project, Foothill College Course COIN94, Constructing Data-Driven Web Sites with PHP & MySQL**  
<http://www.gerardlum.com/coin94final>
- **French Meadows Summer Camp**  
<http://www.gomf.macrobioic.net/gomfcamp/fmsc>
- **Traditional Japanese Shiatsu - Shiatsu by Shigeyo**  
<http://members.aol.com/shiatsubyshigeyo>

## Other Website Projects

- **Stanford Center for Professional Development**  
<http://sepd.stanford.edu> (participated in development and launch of completely new website, September 2008)