Gerard T. Lum

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Job Objective

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

Skills Related to Web Design / Development

- **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). 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.

- **Photography:** photographed the Stanford campus and professional programs for websites and marketing materials; created searchable library of images; edits images in Photoshop.

Programming Languages

PHP, MySQL, HTML, CSS, JavaScript, jQuery, SQL, XML, Java, ASP, SQL Server, Visual Basic, C, C++

Work Experience

Web Developer and Photographer, Fixed Term Appointment   2011 - 2014
Stanford Center for Professional Development (SCPD), Marketing Dept., Stanford, CA
Website Designer, Contract Work for SCPD   2007 - 2011
Manpower, Palo Alto, CA and Option 1 Staffing, Los Altos, CA

- Developed/maintained websites in a collaborative environment: gathered all content into prototype website, iterated until approved by all including program managers and marketing.

- Maintained professionally-designed websites, preserving look and feel by reusing provided style sheets, layouts, and effects (CSS, jQuery, JavaScript), and extending where needed.

- Developed new program-focused mini-sites, reusing existing designs where possible.

- Updated mini-sites to include new Stanford branding, http://identity.stanford.edu.

- Created and maintained hundreds of marketing landing pages using standardized CSS, templates, and include files.

- Tested websites thoroughly in various browsers and devices.

- Photographed the Stanford campus and SCPD programs; created searchable library of images for websites and marketing materials; edited for highest image quality with Photoshop.

- Stepped in for retiring webmaster in 2008, creating/maintaining web applications as needed.

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.

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 with Visual Basic, Access, C, SQL, Windows API, and Crystal Reports.

- 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.

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 by others.

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