

Chris Lombardi

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Goal

To utilize my visual design, interactive programming and science skills to create systems and products that are maintainable, intuitive, and reflect the needs of the users.

Interests include the chemistry, information management, education, VR, food, waste, and textile sectors.

Education

California State Polytechnic University, Humboldt Arcata, CA

Bachelor of Science in Chemistry, 2022

Organic, Inorganic, Physical Chemistry, Biochemistry and Instrumental Analysis

ACS Inorganic Chemistry Student of the Year

Focus on microbial polymer degradation and structural color with thin-film polymers

Massachusetts Institute of Technology Cambridge, MA

Bachelor of Science in Art and Design, 1987

Minor in Holography and Islamic Calligraphy

Tools, Technology And Skills

Lab

Equipment GC-FID, FTIR, UV-Vis, NMR, Schlenk line, HPLC, fluorometer

Analysis Software Mathematica, Igor, LabView, Excel

Web

Platforms Laravel, AWS, GWT, Spring, LAMP, Custom

Languages PHP, JavaScript, SVG, Java, Lisp, HTML, CSS, XML, ColdFusion

Tools and Libraries jQuery, Ajax, d3, JSON, AWS CLI, Bootstrap, Composer, Regex

Wordpress Custom plugins and themes, WooCommerce, bbPress, Aweber, payment integrations

Projects E-commerce, web services, event registration, embedded web servers, data integration

Development

Architectures MVC, event subscriptions, networked device control, voice trees

Languages PHP, JavaScript, Java, C++, Lisp, PostScript, VB, VBA, Perl, Omnimark, ColdFusion

Tools and Concepts Git, Docker, Composer, SVN, Mercurial, Bugzilla, Trac, Lucene, UML, OOP

IDE JetBrains PhpStorm and IntelliJ IDEA, Eclipse, Emacs, Visual Studio

OS Mac OS X, Linux, Windows, Arduino

Database

Databases MySQL, PostgreSQL, Oracle, MS SQL, MS Access, ODBC, Filemaker Pro, Alpha5

Reporting Excel, Crystal Reports, Access Report Manager, Alpha5

Tools mysql CLI, phpMyAdmin, MySQL Workbench

Commercial

Microsoft VBA for Office, Excel Web and database integration, Word automation, Visio

Adobe Creative Suite: Illustrator, Photoshop, InDesign, Lightroom; PostScript (programming)

Job Experience

Freelance

Internet Archive *San Francisco, CA 2023-Present*

Creator of Internet Archive Reference Explorer (IARE), a tool for Wikipedia editors to provide more relevant and reliable references through the use of the Wayback Machine, a digital archive service. Tools are written in React.js, JavaScript, and python, along with a suite of development utilities.

Weaver *Arcata, CA 2016-Present*

Use jack and counter-marche looms to design and fabricate scarves of hand-dyed protein and cellulose fibers. Use open-source draft software and Excel to aid in design and dye calculations.

SewImages *Oakland, CA sewimages.com 2010-2020* *Local sewing shop offering sewing classes*

Upgraded website for sewing classes and products with Wordpress/WooCommerce, utilizing custom plugins, themes, post types and JavaScript animations. Earlier CMS custom built with PHP, Excel upload and download features, and custom experience checkouts to gather specialized information.

Diedrich Roasters, Incorporated *Sandpoint, ID 2017-2019* *Manufacturer of coffee roasting machines*

Created iPad based Task Tracking system for factory employees to log hours by job and client. Laravel, Bootstrap, JavaScript, and Composer used to create back-end and front-end, including Excel features. Management tools for administrating, monitoring and allocating employee resources.

TV-B-Gone *cornfieldelectronics.com 2004-present*

Created website with e-commerce, order fulfillment, algorithmic coupons, security fraud alerts, and associated admin reporting tools. Typical LAMP stack: Linux, PHP, JavaScript, Apache and MySQL, with PayPal IPN and Authorize.net integration. Continue to maintain site and admin tools.

Employment

Butte College *Oroville, CA 2016 – 2018*

Supplemental Instructor for Chemistry; Chemistry Lab Grader; Computer Lab Tutor; Weaving Instructor Assistant

Emergent Network Defense *Washington, DC 2014 – 2015*

Provided Network security visualization using d3 and JavaScript, translating event data from multiple computers into real-time dashboard for visual assessment. Coordinated with a team of network security engineers and data scientists.

Technicon *Oakland, CA 2011 – 2012* *Boutique computer solutions provider serving B2B clients*

Senior programmer, coding with GWT, Java, Spring, Freemarker, Lucene, and object model design. Projects included REST content delivery of engineering parts, complex manufacturing configurators, speed and accuracy upgrades of legacy web services, and ColdFusion installation maintenance.

Reach Systems, Inc *Oakland, CA 2007 – 2009* *Pioneer of internet controlled building security devices*

Senior web applications developer for monitoring and control of building activity and user credentials. Integrated communications between proprietary hardware and agents in the security arena. Created embedded web servers in security appliances, and created voice tree systems

Microsoft Financials Division (Volt) *Redmond, WA 2004*

Developed Integrated workflow utilizing Excel templates to generate OLAP reporting tools for regional national managers. Engineered Excel with VBA and ADODB to connect to SQL Servers, and provided configuration tools for fast-changing requirements.