

JOHN F. MACDONALD

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WEB DEVELOPER



Professional Profile

A developer with a broad perspective and skill set who transitioned to web development after many years developing and enabling integrated-circuit design automation in the semiconductor industry.

- Experienced developing and debugging complex software using PHP, Python, Perl, and C++
- Versed in object-oriented programming and software design patterns
- Practiced test-driven development (PHPUnit, Python unittest)
- Skilled in Linux command line and system administration
- Proficient HTML, CSS, SCSS, and JavaScript frontend dev skills with or *without* frontend frameworks (Bootstrap, Foundation), using Node, Gulp, and Webpack for build automation
- Skilled WordPress and Drupal developer and themer
- Comfortable with SQL
- Capable in Agile and Scrum methodologies
- Learner of SEO and digital marketing analytics and methods
- Key skill: pleasing users!

Work History

2016–2018 **Freelance Web Developer** (San Diego)

Designed and developed websites for personal small-business clients and, working through agencies, corporate websites. Provided secure DigitalOcean hosting and site care for personal clients.

- stretchzoneca.com (personal client): Designed, developed, and deployed a WordPress site with a custom theme based on Roots/Sage. Hosted on DigitalOcean. Set up call tracking using CallRail.com. Developed prototype software for marketing analytics: PHP interface to ClubReady API and Python prototype to collect, analyze, and correlate website form submissions, calls, and customer activity.
- glydermusa.com (getlevelten.com client): Working on a very tight budget, updated the styling of a WordPress site that hadn't been touched for 3 years by updating theme and plugins and "hacking" the MySQL database. Deployment on Pantheon.io.
- relationships-at-work.com (personal client): Designed, developed, and deployed WordPress site with a custom theme based on Underscores and a custom plugin. Maintaining site on GoDaddy (plan to move to DO), with editorial responsibility for content.
- debradupree.com (personal client): Hosting and maintaining site developed by ngngenterprises.com.
- test-joe-dhi-test.pantheonsite.io (personal client): Redesign of www.digitalhealthinnovationsd.com, an achieveinternet.com site for their (stalled?) digital-health marketing endeavor. Developed custom WordPress theme based on Roots/Sage and a custom plugin. Deployment on Pantheon.io is pending.
- <http://www.chla.org/chla-health-network> (achieveinternet.com client): Added geolocation-based search for pediatricians in the CHLA Health Network to the chla.org Drupal website. Drupal site building, module development, and theming.
- rcenergysolutions.com (datalinkseo.com client): Developed custom WordPress plugin with bespoke "free quote" and solar-estimate calculator and contact forms.
- <http://beringseaproductions.com/> (personal client): Designed, developed, and deployed custom WordPress site, creating custom theme based on Zurb Foundation. Hosting and maintaining on DO.

2015–2016 **UC San Diego Graphic & Web Design Student** (San Diego)

To jumpstart career redirection, enrolled in fulltime UCSD Extension program in web and graphic design.

2010–2015 **Qualcomm, Software Engineer** (San Diego)

Working with integrated circuit design teams worldwide, developed and supported a software system (roughly 50K lines of Python & Perl) for managing (10K–100K) component models using in chip projects.

2009–2010 **Freelance Chip Design Engineer** (San Diego)

While chip design consulting, discovered web development using Drupal and WordPress.

2006–2009 **NextWave Broadband, Lead Chip Design Engineer** (San Diego)

Led physical design team implementing integrated circuits in leading CMOS technologies. Developed design automation framework in Perl. (NextWave closed business in 2009.)

2004–2006 **QThink, Chip Design Engineer** (San Diego)

Implemented integrated circuit designs for QThink—a chip design consultancy—clients.

1999–2004 **Mentor Graphics, Software Engineer** (Oregon/San Diego)

Developed (C++) and helped users apply integrated circuit design automation software.

1993–1999 **Sun Microsystems, Software Engineer** (Sunnyvale)

Developed (C++, Perl) and helped users apply integrated circuit design automation software.

Education

Brigham Young University

BS, Physics

Completed course work and qualifying exams for PhD, Physics

Extended Education / Training

DrupalEasy.com online Drupal 8 training program – 2017

UC San Diego Graphic & Web Design Professional Certificate – 2016

UC San Diego Technical Communication Professional Certificate – 2014

Open Source & Personal Projects

github.com/jfmacdonald

drupal.org/u/jfmacdonald

jfmacdonald.com

When Not Working . . .

It's photography: [flickr.com/photos/jfmacdonald/](https://www.flickr.com/photos/jfmacdonald/)