David Eads
Practical, passionate web development

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Professional experience

Fermi National Accelerator Lab, Batavia, IL
Contract Drupal developer, 2010-Present

- Working on E-Center, a 3 year US Dep't of Energy project that builds web-based tools to visualize and discuss network performance data**.**

- Developing http://ecenter.fnal.gov, a network performance visualization tool that queries a highly scalable web service and uses custom jQuery interaction libraries to unify OpenLayers, Raphael, jqPlot, and jQuery UI. Building social tools for data conversation and sharing, email integration for conversations, and OpenID and Shibboleth federated login.

Progress Illinois, Chicago, IL
Freelance Drupal developer, 2009 – 2010, 2011 (part time)

- Full-time lead developer and sysadmin (OpenX ad server, Apache Solr), and integration (Google Analytics, Chartbeat, Constant Contact, Mollom) for award winning regional politics site.

- Developed & implemented a new design and Drupal 6 upgrade to http://progressillinois.com in collaboration with designer and editor. Redesign and new strategy greatly increased traffic. Average viewing time and repeat visits doubled in the first month.

Chicago Technology Cooperative, Chicago, IL
Drupal Developer, 2007 – 2009

- Worked on Drupal projects including Chicago Public Radio's Vocalo.org project, NetSquared, the Linux Foundation, The Autism Program of Illinois, and the Chicago Metropolitan Association for the Education of Young Children

- Specialized in PHP custom module development, theming, user interface, jQuery, and client communication.

Spear Research, Forest Park, IL
Lead Developer & Data Analyst, 2006-2007

- Built custom PHP applications for Qualcomm and Verizon market studies that managed questionnaires, tracked participants, generated automated and custom reports for researchers and product managers.

Sargent Shriver Nat'l Center on Poverty Law, Chicago, IL
Webmaster/System Administrator, 2004-2006

- Oversaw all technology decisions, maintained Linux and Windows servers and websites. Converted key infrastructure to Linux and oversaw transition to Plone-based website.

Projects

FreeGeek Chicago
Founder & board member, 2005-present

FreeGeek is a 501(c)(3) non-profit that recycles used electronic equipment to provide functional computers, education and skills training in exchange for community service. 500+ volunteers will earn free computers this year. Built http://freegeekchicago.org and leading development of https://townsquare.freegeekchicago.org, a Drupal 7 volunteer management application.

Invisible Institute (2001-2009)

Created and maintained http://viewfromtheground.com. an early blog that covered Chicago public housing.

Speaking & service

Spoke on jQuery at DrupalCon Europe '08, gave keynote at Deloitte's midwest tech conference in '07, provided expert witness on data systems for University of Chicago Mandel Legal Aid Clinic, regularly present at Chicago tech events,

Expertise

Drupal 6 & 7: 4+ years of production experience, Drupal 6 core contributor, module contributor and maintainer.

Data visualization & interaction: Interactive design, dynamic mapping, social data tools.

UI planning & design: Balsamiq and Photoshop for user interface & experience discovery.

System integration: Apache Solr, E-Center Data Retrieval Services, Shibboleth login, advertising, analytics.

Performance: Varnish reverse proxy, server tuning, Drupal tuning and caching.

Linux system administration: Debian, Ubuntu, Red Hat Enterprise Linux, Arch Linux.

Content management frameworks: Drupal 6, Drupal 7, Wordpress, Django.

Technologies: PHP, Javascript, Python, jQuery, CSS 2, CSS 3, XHTML, HTML 4, HTML 5.

Education

Bachelors of Science, Physics: North Park University, Chicago, IL, 2003 (with honors)