

# SARAH G. GRAY

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## SUMMARY OF QUALIFICATIONS

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- Web Developer with strong product development and interaction design skills.
- Broad-reaching knowledge of interactive applications and interface design.
- Equally comfortable with client-side (AJAX/JavaScript interfaces, UI design) and server-side (Rails, PHP, database design) development.
- Teaching, leadership and communication skills: trained and mentored designers and developers.
- Agile Rails Developer with 2 years TDD experience.
- Certified PHP Engineer (ZEND) with 6 years experience building complex PHP LAMP applications.
- Have engaged in 10+ web-based applications through complete development cycles. Extensive experience developing and managing internal team processes through clear communication of specifications.

## SOFTWARE / PACKAGES

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**Extensive Experience with:** Ruby on Rails, PHP, JavaScript (YUI, Prototype, LowPro, custom), MySQL, JSON, HTML, Smarty, Haml, RSpec, Selenium, Capistrano, Subversion, e-commerce (Verisign, Authorize.net).

**Comfortable / Familiar with:** light shell scripting, S3, complex SQL, CSS, Scriptaculous, XML, XPath, Apache, Passenger, JGraph

## PROFESSIONAL WEB DEVELOPMENT EXPERIENCE

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### Highend Network Inc

November 2008 – Present.

*Lead Rails / JavaScript Developer for <http://www.canvasband.com> (in development; demo on request)*

Chief architect / developer for Rails / JavaScript asset-collaboration application that allows users to share, modify and version images in the context of a group project. Technical components include: modeling and implementing application domain, customizing components from the YUI JavaScript library, implementing custom JavaScript components, integrating Flash apps, testing with RSpec, and construction of a custom permission system.

### The Point, Chicago IL

February 2008 – October 2008.

*Rails / JavaScript Developer at: <http://www.thepoint.com>*

Developer for a social networking site that won the Illinois Information Technology Association's Newcomer Award in 2008. Development included: customizing Beast Forums, building custom JavaScript components (carousel), creation of a Facebook application, integrating YouTube video, building a user messaging system, and TDD using RSpec and Selenium. Owing to the early state of the site, I was also a vocal proponent of site strategy and information design.

### Mount Sinai School of Medicine, NY NY

Oct 2001 – February 2008

*Senior Web Application Developer, Educational Technology Group*

Lead web developer for *The Mount Sinai Educational Technology Group*.

I was responsible for building software applications for Mount Sinai and other medical institutions that streamlined paper-based processes into online systems, saving money and creating efficient workflows. I also built software that put slide and audio presentations online for one-day turnaround at medical conferences. Custom projects included:

- Built an online system for Continuing Medical Education (CME), allowing Mount Sinai to migrate their accreditation data online. Permitted doctors track their scores and certifications,

and purchase tests. The skinnable application, <http://www.cmeoutreach.com>, was so successful that it now used by medical journals and outside accrediting agencies as well as Mount Sinai Hospital. <http://www.cmeoutreach.com>

- Developed a web-based clinical competency system (DIGITALsp) for training medical students and residents. This service is now used to train students from 30+ medical schools who come to Mount Sinai for instruction. Led the information architecture, supervised the design process, designed & executed the database back-end, including a complex statistical reporting module; scheduling; automated ftp to work in tandem with Macromedia Director; and online video-editing. Product information here: <http://www.digitalsp.org>
- Created custom e-commerce system for Montefiore Hospital to manage conference registrations. The system allows creation of complex custom registration forms; purchase tracking; and offers online CME.
- Built video and slide players for viewing presentations with synced slide and audio playback.
- Constructed database and php code for portable, interactive, USB storage device using Director for archive and playback of slide/audio presentations.

### **Funny Garbage, NY NY**

December 2007 – completion; May 2004 – June 2004,

*Freelance Developer*

Built front-end templates using Smarty and PHP for Nickelodeon's tween site, "The N".

### **Local Projects, NY NY**

July 2003 – Sept 2003

*PHP Developer, StoryCorps Online Reservation System*

Developed the online reservation and payment system for *StoryCorps*, a national oral history project featured on NPR and ID Magazine with a flagship booth in Grand Central Station. Also built scheduling reservation and tracking system.

### **New School University, NY NY**

Mar 2001 – May 2002

*Adjunct Faculty, Department of Media Studies Masters of Arts (MA) Program.*

Taught on-line and live in the Department of Media Studies MA Program. Courses: Foundations of Media Design and Web Production.

### **Cathy Weis Dance, Macedonia / NY**

June 2000 – January 2001

*Video Streaming Coordinator*

Directed live mixing and streaming video feed to NYC from Macedonia during live dance performances that took place simultaneously in two venues.

## **EDUCATION**

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- Master of Professional Studies (MPS) from Tisch School of the Arts' Interactive Telecommunications Program (ITP) at NYU, 2001
- Bachelor of Arts (B.A.) from Macalester College, 1992

## **EXTRACURRICULAR WEB DEVELOPMENT**

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- A brainstorming / organization application inspired by "stickie notes" that has a rich client interface (JavaScript) and uses the Basecamp API. <http://www.stickyworld.org>. Demo on request.
- Blog on Devchix (<http://www.devchix.com>), a blog for female programmers.