KATHERINE LEIPPER

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PROFESSIONAL EXPERIENCE

Freelance Developer, Designer, Instructor   2016

Los Angeles, CA
Contract work for various clients.

- Instructor for Impacture: holding two-day long courses to train a group of company employees on the basics of web development.
- Design and development for various projects using Rails and React.

Instructor   2015

TechShop, San Francisco, CA
A creative community fabrication space equipped with tools and software.

- Developed a detailed curriculum for a 3-hour workshop on addressable LEDs.
- Instructed small groups of up to 8 adults on basic electronics, how the LED chips work, fabrication techniques for soldering and crimping LED strips, and options for programming with a microcontroller or driver board.

Instructor   2015

BlackGirlsCODE, San Francisco, CA
A youth organization dedicated to STEM education for girls of color.

- Lead the instruction of a class of a dozen middle school girls for BGC's first summer camp. Over the course of ten weeks I guided the girls through tutorials that introduced them to basic programming concepts with MIT's AppInventor tool.
- Mentored them individually in completing their own final project Android apps, which they presented to an audience of parents and employees of the sponsor company on the last day.
- Developed and instructed on secondary curriculum that introduced the girls to the Python language.

Software Engineer | User Experience Developer   2012-2014

Coupa Software, San Mateo, CA
Mature agile startup that develops cloud-based purchasing and expense management software for medium to enterprise-level businesses.

- Full stack Rails development building features. Focused primarily on front end for a year and a half, then transitioned to features that involved backend areas of the codebase.
- Turned business needs into designs for new features.
- Practiced BDD by writing unit tests (RSpec, Turnip).
- Participated in agile team daily standups.
- Fixed bugs logged in JIRA.

Front End Developer & Designer   2011-2012

Outbid, Oakland, CA
Dozen-employee agile web startup in the social live auction space.

- Branding and visual design of outbid.com site.
- Front end coding of webpages within the Rails views, including stylesheets and Javascript.
- Guided the team's ideas around the site's user experience; critiqued and collaborated with another designer to create wireframes of the site flow.

SKILLS

Technology: Ruby on Rails, Javascript (React, jQuery, CoffeeScript, ES6), HTML5, CSS3 (Sass, Less), Postgres, MySQL, Git, Arduino, Processing

Design: Adobe Creative Suite (Photoshop, Illustrator, InDesign, AfterEffects), Balsamiq, UI design, UX design research

Other Skills: knowledge of electronics & circuit design, soldering, MIG welding, screen printing, illustration

EDUCATION

California Institute of the Arts (CalArts)
Valencia, CA
Bachelor of Fine Arts, Graphic Design, 2010

Continued Education Course:

C Programming
Spring Semester 2010
College of the Canyons, Valencia, CA

VOLUNTEER EXPERIENCE

Tech Instructor/Mentor   2015
Office Volunteer

BlackGirlsCODE, Oakland, CA
A youth organization dedicated to STEM education for girls of color.

- Co-taught an after-school pilot program of 30 middle school girls. Over the course of three weeks they were introduced to basic programming concepts and completed several of their own Android apps using MIT's AppInventor tool.
- Mentored a group of five girls ages 11-13 through the process of building a smart-phone app—from initial brainstorming, to creating user experience prototypes, to programming with AppInventor.
- Assisted with general office work days, organizing and filing forms.

References available upon request.

PROFESSIONAL EXPERIENCE continued

Web Developer/Designer | **Interactive Design Intern**   2010-2011

Tether, Seattle, WA
Full-service design and branding agency for global brands and small companies alike.

• Worked with a senior developer to complete the new Tether company site, written in
  .NET. I took on the bulk of the front end programming.
• Content strategy research, visual research and initial concepts for company website and
  promotion.
• Development of client websites, including a Django site and a custom Wordpress
  template site.
• User experience ideas and prototyping interfaces of client website designs.
• Storyboard ideas and sketches for client videos.

Intern - Project Manager & Web Designer   2006-2009
                                                      (summers)
Master-McNeil, Berkeley, CA
Creative and strategic firm offering company, brand, product and service names.

• Site architecture and interface for a startup website; managing third-party
  development of the site.
• Design and development of company website, as well as several other static microsites.
• Logo designs for clients.

ART PROJECTS & EXHIBITIONS

Celestial Mechanica, Black Rock City, NV   2014
Collaborative Burning Man Honorarium art installation

A 15-foot tall orrery (a mechanical model of the solar system), fabricated by a crew of 20
people, designed by artist Jessika Welz. I lead the promotional graphic design (including
logo, postcard, and t-shirt design), assisted with MIG welding, planet materials R&D, and
strategized fundraising.

Mens Amplio, Black Rock City, NV   2013
Collaborative Burning Man Honorarium art installation

A 15-foot tall steel and acrylic brain conceived of by artist Don Cain, built by a team of 20.
I worked on the lighting electronics team to create the LED-lit neurons.

Seattle Weekly's Artopia, Seattle, WA   2011
Group art show

Exhibited my handcrafted LED cube and generative projected art written in Processing.