

Work History

WHITNEY MUSEUM OF AMERICAN ART <i>99 Gansevoort St., New York 10014</i>	Web Developer	3/15–6/17
<ul style="list-style-type: none"> - Technical lead for designing & deploying the new museum-wide CMS (“Top Goose”) from conception to release. - Managed assignments for remote web developer and newer hires. - Closely collaborated with design to ensure best possible product. 		
RENT THE RUNWAY <i>163 Varick St., New York 10013</i>	Software Engineer	9/13–5/14
<ul style="list-style-type: none"> - Managed the frontend infrastructure and designed new UI components to be used throughout the website - Participated in a special task force to eliminate tech debt. Led the part of the team that consolidated our repositories - Designed many of the landing pages for the site, such as the showroom page and mobile app page. Worked closely with the design and mobile team to get the best-looking page possible - Designed new date picker for Rent the Runway and participated in UX planning sessions on the implementation of the date picker 		
SELF-EMPLOYED	Freelancer	11/16–Present
<ul style="list-style-type: none"> - Designed Express, HTML5, and SASS to create a national park science platform by crowdsourcing the design of science systems by allowing users to propose new projects - Constructed website as an educational resource for the University's upcoming Front End Development course - Profiled and improved Revolvly LLC's PHP codebase along with setting up and maintaining a distributed cloud-based system and CDN - Tutored a wide variety of classes including Statistics, Single-Variable, Multivariable, and Vector Calculus, and College Algebra. - Gave added examples and academic book suggestions over advanced material to students who wished to pursue mathematics as a career. 		
MISSOURI ORGANIC <i>7700 U.S. 40 Highway, Kansas City, MO 64129</i>	Systems Administrator	3/13–6/13
<ul style="list-style-type: none"> - Managed the network for a company who provides environmentally conscious composting of food waste for clients such as the Kansas City Chiefs football team - Convinced manager to change hosting providers and rewrote all necessary ASP.NET to PHP, saving the company over five hundred dollars a year - Researched and compared the cloud productivity suites OwnCloud, Zoho, and Google Business Apps and then helped construct transition plan to Google Business Apps - Handled DNS and MX records during the transition 		
KU MATHEMATICS DEPARTMENT <i>University of Kansas, Lawrence, KS, 66045</i>	Graduate Teaching Assistant	8/11–1/13
<ul style="list-style-type: none"> - Planned lessons and instructed one to two mathematics classes per semester of calculus and college algebra. - Designed tests, recorded scores, and gave students feedback via office hour meetings and grades. - Assisted with the proctoring of finals and midterms each having almost a thousand students. - Worked one-on-one with students in the consulting room, often going beyond basic coursework to show more advanced problems and theories to interested students. 		

Education

		GPA
M.A. MATHEMATICS	University of Kansas, Lawrence, KS (2011-2012)	3.74
Thesis - On the Morita Equivalences of Certain Foliation Algebras Given by an Action of the Real Line		
- Passed with Honors		
B.A. PAINTING & MATHEMATICS	University of Kansas, Lawrence, KS (2006-2011)	3.21

Skills

LANGUAGES	JavaScript (ES2017), Ruby, CSS3, HTML5, Python, PHP. Familiarity with Java
LIBRARIES, PLATFORMS, PARADIGMS	MySQL, Ruby on Rails, Backbone, Sinatra, Memcached, A/B testing, Express.js, CouchDB, jQuery, HTML5 Canvas, Raphael.js, Linux CLI and shell scripting in general, Google Chrome Extensions API, Node.js, Bootstrap, VIM, Neural Networks, Heroku, AWS, & Rackspace
NETWORKING	HTTP, Websockets, DNS
GITHUB	http://www.github.com/elju

Projects

SIGNIFIER sgnfier.com // github.com/elju/signifier

- Drafted initial ideas for a collaborative hyperlink driven web annotation application and scheduled 20-30 hours per week outside of graduate school to work/research.
- Experimented with JavaScript on the initial prototypes and chose CoffeeScript for the final version.
- Back-end written in Node.js utilizing websockets for client requests and Couch DB for databasing.
- Became very familiar with the DOM and its peculiarities such as NodeType, text vs..textContent, document vs. document.documentElement, and others.
- Handled all systems work myself such as setting up CouchDB on a remote server and using SSH tunneling to set up map/reduce views.
- Used many parts of the Google Chrome extension API such as message passing from tabs to the extension and then to the server as well as utilizing HTML5 onmessage to avoid cross-domain origin errors.

LJU.ME

lju.me

- Back end written in Node using LESS, Jade and Express.js to accelerate site development.
- Drafted many designs for a website to host my painting portfolio, computer programming, and academic career.
- Settled on a four subwindow design reflecting that each part of my work makes the most sense when viewed in conjunction with the other parts.
- Designed a Twitter Bootstrap theme using FontAwesome and Jekyll.
- Used CSS3 transformations and transitions to animate the site, and optimized across multiple browsers.
- Tried each of AWS, Heroku, and Openshift for extended periods of time before eventually settling on Heroku.
- Used AWS S3 for image hosting.

Volunteering & Experience

SCRIPTED

New York, NY, 7/13–Now

Designing lesson plans to teach computer programming to students in low-income high schools. Teaching computer science at AoIT high school in Brooklyn to ensure that low-income students can become creative forces in technology in the 21st century.

SILENT BARN

New York, NY, 7/13–12/13

Managing bi-weekly updates via email to donors of the DIY art space Silent Barn. I help think up and design online content to make Silent Barn's internal art-bartering currency system, barnacles, more effective and to encourage participation in the donations system. This system also provides new exposure to the Silent Barn's artists-in-residence.

LAWRENCE ARTS CENTER

Lawrence, KS, 5/09–8/09

Assisted art teachers of summer programs in drawing and sculpture including supervising, guiding children's creative process, supervising during lunch and playtime, and distributing art supplies.

MATHEMATICAL EXPERIENCE

Category Theory, Algebraic Combinatorics & Graph Theory, Group Theory, Commutative and Noncommutative Ring Theory, Operator Algebras & Noncommutative Geometry, Undergraduate Statistics

Art & Design

Total OILS USA, 8/13

<http://oilsoilsoils.bandcamp.com/album/total-oils-usa>

Cover Art for an EP Release

Designed the cover art used by the band OILS for their east coast tour EP, "Total OILS USA."

Front/Space Art Gallery, 8/11

<http://www.frontspace.info/Actually-Happening>

"Actually Happening"

Hung a collection of paintings done over the course of summer 2010 to summer 2011. Many pieces dealt with cyberspace and writing. Frequently used acrylic matte medium to transfer toner on to canvases.

Portfolio

<http://lju.me/#/art>