nick hulea

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Los Angeles, CA
330.207.3406

2017-PRESENT J. Paul Getty Museum and Trust, Los Angeles, California /Remote
Software Engineer

- Maintainer of Getty Publications project Quire, a command line interface that converts mark-down files into HTML, EPUB, MOBI, and PDF. Quire leverages Nodejs for the CLI, Hugo (Static Site Generator GO templates), Pandoc (Files Converter), Prince XML (convert HTML to PDF), and adheres to strict accessibility standards of WCAG.
- Ongoing project of implementing Elastic Stack for internal/external search and APM - Backend: Apache Nutch, Elastic Stack Frontend: Vue, Vue-cli, Vue-Router
- Internal Project Dashboard to monitor project development and milestones - Frontend: Vue, Vue-cli, Vuex, Vue-Router, Bulma, WPGraphQL Backend: Wordpress
- New Docent website. The docent site was a major refactor since the last site was built 8 years ago. - Frontend: Vue, Vuex, Bulma, WPGraphQL Backend: Wordpress. The Wordpress site connects to a scheduling system and uses this data to create a custom experience for each user based on their role and schedule.
- *Bauhaus Beginnings* exhibition site for the Getty Research Institute - Quire CLI, Hugo, Webpack 4, Babel, Bulma - https://www.getty.edu/research/exhibitions_events/exhibitions/bauhaus/new_artist/

2013-2017 Natural History Family of Museums, Los Angeles, California
Lead Digital Developer

- Project lead and strategist for all digital properties and projects
- Administrated LAMP stacks on 3 servers (dev, stage, production)
- Managed multiple custom forms with PHP and NodeJS backends, secure processing is always my highest priority
- Integrated development between datasets from multiple MYSQL DBs, MongoDBs and APIs
- Made use of Google Maps API and JS Canvas API to create an interactive Google map tracking application with custom directional image of a Pterosaur that followed a predetermined path set in KML file that would finish on a given date
- Used Gulp to compile SCSS and JavaScript
- All deployments were via dedicated Rackspace servers via Gitlab deploy scripts

2012-2013 The Confluence Group, Los Angeles, California
Creative Director/Web Director

- Built 3D animations with 3Ds Max, VRAY, and composited in After Effects (https://vimeo.com/40062967)
- Built promotional static sites for our affiliates
- Retouched photos and edited promotional videos
- Maintained Drupal instances for a custom reporting dashboard for clients (Each client had their own private dashboard to view the stats from the advertising campaign)
- For data visualizations for reporting using D3.js and Highcharts.js
- Deployed via Pantheon

2009-2012 Flaunt Magazine, Los Angeles, California
Digital Design Director

- Controlled the flow of all visual media within Flaunt Magazine's web and print media pipeline
- Maintained a high performance Rackspace cloud server that ran a Drupal instance with CloudFront CDN
- Created advertising, cover, and special insert design
- Maintained and facilitated all technology at the office, including, large-format printers, web and LAN servers, cameras, computers, and software
- Organized and edited a large range of media types, from streaming video to 3D models and high-resolution graphics

PROJECT DETAIL

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The Getty work location is either Los Angeles, California/Remote

Quire CLI for Getty Publications
Frontend: Hugo, Webpack 4, Bulma
CLI: Binaries from Hugo, Prince XML, Pandoc, and Webpack through a Node JS CLI and Rollup JS to compile
Test: Jest
Deploy: Netlify, Zeit Now, GitHub Pages, add your favorite configuration!
https://github.com/gettypubs/quire

Quire is a modern, multiformat publishing framework designed to create books as authoritative and enduring as print, and as vibrant and feature-rich as the web. They're created without ever signing up for an account, paying a fee, or setting up and maintaining a complicated server. Quire consists of a CLI that does several build processes for the author. I wrote most of the CLI to accommodate the new output formats and a refactor of the underlying architecture that creates them. The website that Quire produces implements Hugo, so I am familiar with GO and GO templates. I also implemented code that produces a fully validated EPUB and PDF also using the Hugo templates. This project adheres to strict standards for accessibility; we validate all the files that Quire produces. The goal is to have the standards implemented so the author can just focus on writing. Quire is used worldwide by many users at various educational and cultural institutions. Quire works on Mac, Windows, and Linux.

Bauhaus Beginnings 100th Anniversary site for the Getty Research Institute
Frontend: Quire, Hugo, Webpack 4, Bulma
Deploy: Netlify
https://www.getty.edu/research/exhibitions_events/exhibitions/bauhaus/new_artist/

This site was built using the tool CLI tool I maintain. I worked with our designer to build the site from Sketch and Zeplin templates. Several writers from the Getty Research team wrote the content in markdown files and made use of various custom shortcodes and templates that I created for the Quire's starter theme, as well as custom themes that I created for this site. We made use of Netlify's integration with GitHub where we deploy a master branch and pull request deployments which our designer verifies that what I built is correct and functions the way it should. Netlify makes deployment incredibly easy and useful especially when using Hugo and Webpack. Running integration testing with each pull request makes it easy to tell what is going on with the site and for others to see instantly what you did.

Getty Digital Project Dashboard
Frontend: Vue, Vuex, Vue-Router, Vue-CLI, Bulma, WPGraphQL
Backend: Wordpress
Deploy: EC2, S3, and Cloudfront

The Getty staff is broken up into various departments; my department is Getty Digital. I built a dashboard that allows various users to add/edit their projects to this dashboard in Wordpress
and then be displayed to other staff throughout the institution. Mainly this tool is for executive staff to keep track of the many digital projects underway at the institution.

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Getty Docent Web Site

Frontend: Vue, Vuex, Bulma, WPGraphQL

Backend: Wordpress

Deploy: EC2, S3, and Cloudfront

The new docent site was a major refactor since the last site was built 8 years ago. The Wordpress site connects to a scheduling system and uses this data to create a custom experience for each user based on their role and schedule. 2019 Gold MUSE Award Winner for Enterprise Technology https://www.aam-us.org/programs/awards-competitions/2019-muse-award-winners/

Getty Search

Frontend: Vue, Vue-Router, Vue-CLI

Test: Jest, Cypress, CircleCI for CI/CD

Backend: Elastic Stack, Apache Nutch

Deploy: EC2 and Elastic.co

Another developer and I rewrote the search with Elasticsearch, and various beats. Apache Nutch does the crawling to replace the Google appliance that was about to be discontinued. We built several frontends for the indexes that were needed to support the various types of search that were implemented before the switch. Trying to recreate what Google was doing previously was tricky, but the search's reception has been positive and some did not even notice it has changed back ends. We also are now implementing an index for Elastic's Application Performance Monitoring (APM) and applying it to some, if not all, of our code bases. Adding real time monitoring of the code allows our developers to drill down on resource costs to make our code fast and cost effective.

Kavli Foundation

Drupal 8 website

Deploy: Pantheon

https://kavlifoundation.org

Location: Remote

I am current maintainer of this foundation's Drupal code base. I will be helping with the redesign.

Crypto Coffee Calculator:

Frontend: React, CoinMarketcap API

Deploy: Netlify

https://cc-ticker.netlify.com/ (Ad blockers are blocking CoinMarketcap's API I am looking into this. To see the app, ad blockers must be disabled)

Location: Los Angeles, California/Remote

I used React to build a frontend that displayed realtime changes to a $3 cold brew coffee in various crypto currencies so customers could see how the price lowered and dropped and then they could lock in their price and pay for it in that token. A few people have actually bought coffee with cryptocurrency.

SeeArtLive (work in progress)

Frontend: Next.Js, WPGraphQL

Test: Jest, Cypress

Backend: Strapi CMS

I am building an app that will display art events near your location. The idea is to give art events more access from a location-based level. Also leveraging service workers for low internet situations.

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cat-bounce.com

Stack: Webpack, Meteor JS

https://cat-bounce.com/

Location: Remote

This website was a great success for artist Tara Sinn, but she wrote it in Flash. I was able to implement a near-perfect replica of the site. Now the site is viewing on any device and anyone can enjoy cat bounce once again on the web. This type of work is fulfilling for me. I used to love Flash; I don't believe it's smart to just give up on these projects. Cat Bounce was created by Tara Sinn. I rewrote the site from actionscript to JavasScript. Cat Bounce has been written about by Buzzfeed, Teen Vogue, Refinery 29, The Huffington Post, Mashable, and Mental Floss among others. This site is a recent winner of Webby Award in the Weird catergory -> https://www.webbyawards.com/winners/2019/websites/general-websites/weird/cat-bounce/

ACLU SoCal

Drupal 7 website

Deploy: Pantheon

https://www.aclusocal.org

Location: Remote

Built Drupal 7 module to make new optional frontend styles for content. These features were created for the Southern California ACLU but were pushed to the national sites

Adult Swim

Stack: JavaScript Canvas API, CSS3

Location: Remote

Built Promotional website for new show 'Black Jesus'. The website made use of the JavaScript, Canvas API, CSS3, Youtube API

Gifpaint

Stack: JavaScript Canvas API, gif.js

Location: Los Angeles, California

http://gifpaint.hulea.org/

There are a lot of odd entities on the internet, one of which is the animated gif. After completing yourimage.io, I was interested in extending the idea of random image collage and image painting to make use of animated content. Utilizing gif.js, native canvas API and imgur I was able to create a website that has the ability to paint and collage with animated content.

YourImage

Stack: JavaScript Canvas API, Paper.JS

Location: Los Angeles, California

http://yourimage.hulea.org/

I used the JavaScript canvas API, paper.js and the Imgur API to create this website. It allows users to use their mouse or touch device to paint with images from the Imgur API. The program also allows users to save their creation. Using the combination of the unknown (Not knowing which image will be next), collage (https://en.wikipedia.org/wiki/Collage), and a version of action painting (https://en.wikipedia.org/wiki/Action_painting) the results become unique artwork to share. The generative nature of this website allows a collaboration between the user and the computer. Using pixels to show weight and density while expressing unique ideas with juxtaposition of textual and visual ideas from Imgur's site.

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EDUCATION

2002-06
Otis College of Art and Design Los Angeles, California
BFA, Sculpture/New Genres

AWARDS

- 2019 The American Alliance of Museums MUSE Award Winner for The Getty Docent Site
- 2019 Webby Award catergory Weird for cat-bounce.com
- Certificate of achievement from Mayor Antonio Villaraigosa for revitalization project
- Folio Ozzie Award
- Best Overall Design, Consumer Silver Award - Flaunt Magazine April, 2010
- Best Cover, Consumer Under 250,000 Circulation Bronze Award - Flaunt Magazine: The Census Issue April, 2010

SKILLS

Creative, philosophical thinking based in logical and algorithmic coding experience and know-how to create unique solutions for all design and development problems. Expert knowledge of creative and development software in Linux, Windows and Mac.

Languages

JavaScript	CSS	JAVA
TypeScript	XML	GO
Rust	Git	BASH/ZSH
MYSQL	Apache	Arduino
PHP	Nginx	GraphQL
Python	Erlang	Lua
Ruby on Rails	C#	Mongo
HTML	C	

Framework, Libraries & CMS

Drupal	Caffe	Grunt
Composer	Tensorflow	Rollup.js
Drush	Wordpress	Varnish
Docker	D3.js	SVN
Zend	Hugo	Git
HighchartsJS	Gatsby	Deno
JQuery	MiddleMan	Pika
Django	Jekyll	Jest
Angular	Vuepress	Tape
Vue	Matter.js	CircleCI
Nuxt	Three.js	Jenkins
React	socket.io	Bulma
Next.JS	Pandoc	Bootstrap
Larvel	NPM	Zurb
NodeJS	Prince XML	
Backbone	Apache Nutch	
Underscore	Elastic Stack	
Backdrop	Webpack	
OpenCV	Gulp	