

PROGRAMMING SKILLS

Languages/Frameworks: JavaScript ES6, HTML5, CSS3, NodeJS, Ruby on Rails

Databases: SQL, PostgreSQL, MySQL, MongoDB, Mongoose

Front End JS Libraries: D3.js, PDF.js, Datejs, jQuery, React

NodeJS Frameworks and Modules: Express, Mustache, Validator, Passport, Express-Session

Styling and Design Tools: Animations using CSS Keyframes, Transition properties and JS functions; Bootstrap, Media Queries, FlexBox, CSS-Grid, Font Awesome, Google Fonts, PhotoShop

Server/Storage Tools: Digital Ocean, Ubuntu, Passenger, Nginx, SSL certificate installation with CertBot, Capistrano and Capistrano partner gems, Heroku, AWS CLI for managing s3 buckets, AWS Ruby SDK

Ruby Gems/Libraries: Rspec, MiniTest, FactoryBot, Shoulda Matchers, Capybara, Launchy, Devise, Active Admin, ActionMailer, Formtastic, CanCan, Pundit, Dotenv, Dragonfly, Paperclip, CarrierWave, Jbuilder

TECHNICAL EXPERIENCE

Viget Labs, App Developer Apprentice/Contractor

January, 2018 – May, 2018

- Primary developer responsible for handling support requests coming directly from the client for a large content management app built in Rails with jQuery on the front-end
 - Example Responsibilities: repaired access to the Google Maps API, optimized script to compress 40 Gb of images stored on S3, and applied breadcrumb navigation styling to new site pages
- Use agile approach on fast-moving team to build a custom app for managing document transactions
 - Example Responsibilities: built a JavaScript/Rails prototype to let admin users set input field positions on PDFs with mouse-clicks (see github.com/gingin77/dragon_app); collaborated on data modeling; used TDD approach; wrote role-based user authorization policies with Pundit
- Expanded Git/GitHub version control skills beyond merge and pull to rebase, squash, stash and more
- Built a lite clone of the Hacker News site in Rails during first month as apprentice. The app includes customized styles in combination with Bootstrap. Features include submission forms, mailers, and an AJAX-enabled vote button display designed with jQuery and Rails templates. The site is deployed to a Digital Ocean Droplet configured with Passenger and Nginx and has SSL-enabled

Site: <https://myhackernewslite.com/>

Code: github.com/gingin77/hackernews_clone

Journalistic, Contractor

January, 2018

Implement responsive styles with media queries in CSS to match mockups for the [QSR magazine site](#). I overhauled the layout styles for the site's main drop-down navigation menu and for a sign-up form.

Personal Portfolio Site with GitHub Language Data Scatter Plot

November, 2017

Site was built from scratch using own designs along with icons from Font Awesome. The [skills](#) section features a scatter plot displaying data from GitHub's REST API processed using vanilla JS and d3.js.

The Iron Yard

July – October, 2017

The Iron Yard was a 12-week coding boot camp that offered full-stack, project-based training in HTML, CSS, JavaScript, and NodeJS. During the last month, students chose to focus on Rails or React.

Capstone Project: Tourify, a collaboratively built Ruby on Rails/React web app that exposes a public API and supports a content creator's dashboard. For more details, visit: gingin77.github.io/#tourify

Tourist view: <http://tourify.city/>

Code: github.com/Tourify/tourify_rr

Song Snippet Player, A mobile-responsive web app that lets users build a playlist from song clips retrieved from the iTunes API

Site: https://gingin77.github.io/iTunes_API/

Code: github.com/gingin77/iTunes_API

OTHER PROFESSIONAL EXPERIENCE

Scientific Sales Representative, Cell Culture Products

STEMCELL Technologies

June, 2015 – July, 2017

- Managed a diverse cell culture product portfolio and provided specialized support to customers
- Used the SMART goal framework to set quarterly and annual goals; 100% of plan club member

Supervisor and Instructor for Undergraduate Chemistry Labs

UNC-Chapel Hill

2014 – 2015

- Managed a team of TA's and prep staff students in service of the intro-level chemistry lab program

Director of the HHMI Future Scientists and Clinicians Program

UNC-Chapel Hill

2010 – 2014

- Collaborated with administrators, faculty, staff and program evaluators to design and implement program infrastructure, set project timelines, file annual reports and apply for renewed funding

HHMI-First Year Science Seminar Instructor

UNC-Chapel Hill

2012 – 2014

- Developed and taught a biology topics course for science majors and non-majors called *The Life Sciences & Biotechnology in a Globalized Era: Impacts & Perspectives*
- Topics included the science behind landmark advances in 20th and 21st century biotechnology, recombinant human insulin, monoclonal antibody therapies, stem cell biology, GMO's, and more

Post-Doctoral Researcher

Department of Biology, UNC-Chapel Hill

2010 – 2013

- Studied genetic mechanisms of meiosis in a mushroom model organism, using computational genomics tools to compare, annotate, and map DNA sequence regions with open chromatin
- Tools: ZINBA analysis pipeline, Integrative Genomics Viewer, BEDTools and Galaxy

Graduate Researcher

Department of Microbiology and Immunology, UNC-Chapel Hill

2003 – 2010

- Dissertation title: *Molecular Mechanisms of FOXP3-Mediated Gene Regulation and Their Contribution to T cell and Thymic Epithelial Cell Function*

SCIENTIFIC PUBLICATIONS

Hench, VK and Su, L. Regulation of IL-2 Gene Expression by Siva and FOXP3 in human T cells. *BMC Immunology* 2011, 12:54

Chavez, L., et al. Simultaneous sequencing of oxidized methylcytosines produced by TET/JBP proteins in *Coprinopsis cinerea*. *Proceedings of the National Academy of Sciences*, 2014, 111 (48)

RECENT VOLUNTEER ACTIVITIES

Instructor and TA for courses offered by Girl Develop It

October, 2017 – April, 2018

Volunteer for All Things Open conference in Raleigh

October, 2017

EDUCATION AND HONORS

Ph.D. in Microbiology and Immunology, UNC- Chapel Hill

2010

Received high pass with honors on preliminary exam

B.S. in Cellular and Molecular Biology, Chemistry minor, UW – La Crosse

2003

Graduated with highest honors; Dean's list for three consecutive semesters

B.A. in Studio Art; core focus in Biology, Macalester College, St. Paul, MN

2001

Pursued projects in graphic design, printmaking, and painting