

# Julia Mullen

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## Skills:

HTML + CSS (9 years)

Python (8 years)

JavaScript (8 years)

Linux (7 years)

Django (6 years)

React.js (3 years)

Docker (3 years)

Other frameworks  
and tools (constantly  
learning new ones)

## Codecademy

Senior Curriculum Developer

Curriculum Developer

(March 2019-September 2019)

(July 2017-March 2019)

### Software Development

Developed a new assessment and evaluation framework for testing learner code. Implemented a straightforward Python API for curriculum developers, streamlining workflow for common-use cases.

Deployed production-ready code to Codecademy's front-end to allow for rendering of LaTeX formulae using React.js, lazily loading assets to avoid impacting load times for non-mathematical courses

Updated the Codecademy application's Docker backend to support new libraries and frameworks.

### Course Design and Production

Designed, developed, and maintained over a dozen brand new curriculum offerings. Authored English-language descriptions of technologies, code examples with explanation, interactive code samples, and assessment code to evaluate learner comprehension and ability. Wrote blog posts, tutorials, and created stand-alone interactive applets for introducing new concepts and to help visualize complex interactions.

### Project Management

Acted as team lead for several significant projects. Delivered requirements to engineering, edited copy for marketing, and organized direct reports with an Agile Scrum-like methodology. Trained junior staff on usage of tools and pedagogical philosophy. Produced timelines for requirements and deliverables.

## Tower Research Capital LLC

Junior Systems Developer

(January 2015-May 2017)

### monitoring

Developed a dynamic Nagios system that tracked thousands of hosts across the globe updating and reloading in real-time. Implemented a web front-end, a highly customizable email notification system, as well as a Nagios configuration parser to check for changes and optimize against service downtime.

### invdb

Delivered major improvements to an actively used inventory management system, allowing for tracking purchases from request to fulfillment. Automated purchase order generation, tracked price history for items by vendor, and rendered a fluid UI that made procurement information easily discoverable.

### stats

Created employee performance visualizations that imported information from ticket trackers and reflected information about ticket assignees, time elapsed, and subject to be discoverable by employee, team, and region. Charted company health: hiring, attrition, and seat availability by office.

### timesheetdb

Produced a system for hourly employee timesheet submission and manager review and overview.

## Mount Sinai School of Medicine

Research Assistant

(August 2013-August 2014)

### Technical Administration

Scripting solutions for FileMaker Pro, Photoshop and other proprietary toolsets used by the lab.

Developed laboratory website. Microscopy and 3D imaging of laboratory samples.

## CUNY College of Staten Island

Research Assistant (Topology)

(September 2010-June 2012)

Coauthored "The 500 simplest hyperbolic knots" J. Knot Theory Ramifications (arXiv:1307.4439)

Tutor

(September 2009-June 2012)

Bachelor's of Science in Mathematics with a minor in Computer Science

(June 2012)