

# Nicholas Angleton

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[GitHub](#) [LinkedIn](#) [AngelList](#) [Portfolio](#)

## Skills

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JavaScript, Ruby, React, Redux, Rails, Node.js, Express.js, Sass, CSS, HTML, SQL, PostgreSQL, MongoDB, Mongoose, Multer, Webpack, NPM, Git, AWS S3, Heroku

## Projects

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### The Gram

[Live](#) | [GitHub](#)

A full stack clone of Instagram (React, Redux, Ruby on Rails, PostgreSQL, Heroku)

- Reproduced the core CRUD interactivity of Instagram (posts, likes, comments, follows) using RESTful routes with a Rails backend, a PostgreSQL database, and AWS S3 for media storage
- Ensured a responsive React frontend with minimal re-renders, by using Redux for state management and making all changes in state as specific as possible
- Synthesized CSS technologies such as grid and transitions, as well as JavaScript animations, to replicate the aesthetic and flourishes of the original website

### Etchify

[Live](#) | [GitHub](#)

An image processing site that emulates traditional etchings (Javascript, HTML5, CSS3, the Canvas API)

- Produced the outline of user uploaded images via a custom line recognition algorithm that used a convolution with a five-by-five kernel
- Designed a shading algorithm that calculated perceptual luminance to match the darkness of the source image
- Employed vanilla JavaScript for DOM manipulation to synchronize a two tiered user interface, which streamlined the user's decision making process, while also allowing them to explore more advanced settings

### WeGo

[Live](#) | [GitHub](#)

A web application for trying new things (React, Redux, Node.js, Express.js, MongoDB, Heroku)

- Collaborated with a team of three other engineers to produce Node.js routes for CRUD functionality that allowed users to create and join activities
- Implemented hosting of media on AWS S3 to minimize strain on the server, while using Multer and the FormData API to facilitate user uploads of images
- Constructed Mongoose queries and updates, including a single-pass query for the site's primary search function, which allowed users to combine multiple filters and a typed phrase

## Experience

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### Tutor

Lemon Tree Learning | New York, NY | Nov. 2021–present

Pleasanton Tutoring | Pleasanton, CA | Aug. 2019–Aug. 2021

- Tutored high school and college students in a wide range of subjects, including AP Calculus, AP Statistics, and AP Chemistry, as well as standardized tests

### Associate Producer

3Girls Theatre Company | San Francisco, CA | Feb. 2021–Sept. 2021

- Produced, edited, and served as technical lead for *Chasing the Ghostlight*, a long-form interview podcast
- Researched and drafted budgetary analysis of technical equipment and digital resources, such as distribution and production platforms, to achieve the highest level of audio quality with minimal expense

## Education

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### App Academy

New York, NY | 2022

- A 16 week full stack web development intensive with a less than 3% acceptance rate

### Wesleyan University

Bachelor of Arts in Philosophy | Middletown, CT | 2018

- Additional focuses included creative writing and mathematics, such as combinatorics and linear algebra