

Nicholas Angleton

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Skills

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

Projects

The Gram

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

A full-stack clone of Instagram (React, Redux, Sass, Ruby on Rails, PostgreSQL, AWS S3, Heroku)

- Reproduced the core CRUD interactivity of Instagram (users, posts, likes, comments, follows) using RESTful routes with a Rails backend and a PostgreSQL database
- Employed AWS S3 and Active Record Associations to enable users to upload images and profile photos, while ensuring the reliability of image services
- Synthesized CSS technologies such as grid and transitions, along with JavaScript animations, to replicate the aesthetic of the original website

Etchify

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

A static site that transforms user uploaded images into etchings (Javascript, HTML5, CSS3, the Canvas API)

- Emulated the line-work and shading of traditional etchings by combining a novel line recognition algorithm, which used a convolution with a five-by-five kernel, and a shading algorithm, which calculated the perceptual luminance of regions in the source image
- Streamlined the user's decision making process, while providing optional advanced settings, by creating a two tiered user interface that was synchronized with vanilla DOM manipulation

WeGo

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

A social media web application for trying new things (React, Redux, Node.js, Express, MongoDB, AWS S3, Heroku)

- Created Node.js endpoints and MongoDB schemas in coordination with frontend engineers to enable account creation, as well as to allow users to create and join activities
- Enabled users to securely upload and remove images, by integrating AWS S3 hosting, while using Multer and the FormData API for file processing
- Minimized sever strain for the site's search function by constructing a single-pass Mongoose query, which used regex to combine four filters and a typed phrase

Experience

Tutor

Lemon Tree Learning | New York, NY | Nov. 2021–Aug. 2022

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

- Tutored high school and college students in a wide range of subjects, including AP Calculus and AP Statistics

Associate Producer

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

- Produced and edited *Chasing the Ghostlight*, a long-form interview podcast
- Communicated technical concerns regarding acoustics and recording equipment to the creative team to ensure the highest level of audio quality possible
- Researched and identified key production and distribution platforms to facilitate the remote recording of guests and ensure the ease of release

Education

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

- Relevant coursework included math, such as combinatorics and linear algebra, and intro to Java programming