

## TECHNICAL SKILLS

JavaScript, Python, React, Redux, Ruby, Rails, Git, Java, Spring, HTML5, CSS3, SCSS, jQuery, Node.js, Webpack, PostgreSQL, Heroku, RSpec, MongoDB, Express.js

## PROJECTS

Discrud | (*React/Redux, Rails, ActionCable/Websockets, PostgreSQL, Heroku*)

[live](#) | [github](#)

Single-page web app based on Discord, a platform for creating and sharing community servers with multiple chat channels

- Designed a RESTful API that preloads relevant data in each response to improve frontend load time
- Wrote custom ActiveRecord queries to validate user permissions and prevent unauthorized access
- Employed Rails' Action Cable and Redis to deliver chat message events across websockets in real time
- Implemented higher-order React components to create a modal framework for reusable input forms

Splat | (*React/Redux, Tone.js, Node.js, Express.js, MongoDB*)

[live](#) | [github](#)

In-browser music sampler and sequencer with preloaded custom sample themes and adjustable tempo controls

- Utilized Redux architecture to globally store themes and sample metadata, guaranteeing reliable DOM rendering
- Integrated the Tone.js Transport class with React component state to sync audio playback and component rendering with extremely precise timing
- Practiced a git flow methodology to ensure a consistent quality and correctness of code in the shared repository

Dessin | (*JavaScript, HTML5 Canvas, SCSS*)

[live](#) | [github](#)

Interactive pattern generator using recursive geometry to create eye-catching animations

- Developed an extensible system for drawing self-similar shapes, allowing users to independently control more than six different parameters
- Leveraged media queries to style a responsive UI optimized for desktop and mobile experiences
- Crafted mathematical utility functions to compute the best parameters for smooth animations

## EXPERIENCE

*Carvel*

Shift Leader

Jun 2017 - Dec 2019

Team Member

Jul 2016 - Jun 2017

- Engaged customers to create product experiences tailored to their personal preferences
- Trained new hires to effectively handle daily tasks and responsibilities
- Invented a new process for creating a product, reducing average time spent on large orders by 20%

## EDUCATION

Stony Brook University

2014-2018

BS Computer Science

AppAcademy - Immersive 1000+ hour software engineering course with a <3% acceptance rate, 2019-2020