

# Sam McClure

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[LinkedIn](#)

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[Portfolio](#)

## SKILLS

JavaScript, TypeScript, React, Redux, Python, Django, Ruby, Ruby on Rails, SQL, PostgreSQL, Git, HTML, CSS

## EXPERIENCE

### Full-Stack Software Engineer

SiFive Inc., January 2019 - May 2020

- Implemented 9 new products for the SiFive Core Designer web application using JavaScript via React to create the frontend components and Django for the REST API. This more than doubled the available products, brought in thousands of new potential customers, and reduced staff engineering time by automating what would normally be several days of manual work to create each product.
- Collaborated with staff users to design and implement tools that allowed them to interact with customers directly. Trained and provided clear documentation so they could be self-sufficient with the tools, reducing the amount of developer time needed for staff requests and allowing 200+ staff product deliveries to customers.
- Prevented several site-breaking bugs from being pushed to the web app by doing thorough testing during code reviews. Implemented required testing plans for code reviews and converted the codebase to TypeScript to reduce the number of run-time errors.
- Fostered a sense of community in the workplace by organizing monthly office game nights, including running gaming tournaments with 10-20 participants, many who were encouraged to play for the first time

### Associate Systems Engineer

Panasonic Automotive, June 2015 - May 2017

- Designed Active Noise Cancellation (ANC) tunings for over 10 vehicle launches for multiple major car companies by taking acoustic measurements, analyzing data, and testing on-site with the client.
- Fixed a potential ANC instability by coming up with a revised tuning and implementing it into 300+ vehicles just before public launch.
- Created a plan to prevent future tunings from having instabilities by performing more QA tests on the ANC systems and taking measurements on 100+ client vehicles before product release.

## PROJECTS

**Rollover** (Ruby on Rails, React/Redux, CSS3, PostgreSQL, AWS S3) | Sole Developer

[Live Site](#) | [Github](#)

*A full-stack, single-page blogging site inspired by tumblr*

- Condensed several different post types into a single PostgreSQL table with post-type attributes as an elegant way to keep code DRY, modular, and easily scalable.
- Formulated different Active Record queries to fetch specific data from PostgreSQL, such as all posts that a user has liked or only posts made by a specific user.

**SoundStars** (JavaScript, HTML5 Canvas) | Sole Developer

[Live Site](#) | [Github](#)

*An audio visualization that allows users to connect stars and play back their sounds.*

- Implemented JavaScript event listeners to calculate where a user's mouse was located relative to an HTML5 Canvas, enabling objects on the canvas to be selected.
- Utilized an asynchronous loop in JavaScript that allowed selecting and playing audio HTML tags, an async action, to play back in a sequential order.
- Formulated a way for users to draw lines from one star to another using mouse move events and clearing/redrawing a new line on the canvas with each movement, allowing the user to feel like the line was dynamically moving with their mouse

## EDUCATION

**App Academy** - 1000-hour immersive full-stack web development intensive with <3% acceptance rate (2018)

**Lawrence Technological University** - BS - Audio Engineering Technology - 3.9/4.0 GPA - (2010 - 2014)