

Sarah Fuchs

fuchssarahe@gmail.com

(262) 227-7987

[LinkedIn](#)

[GitHub](#)

PROJECTS (solo development):

Live

GitHub

Camellia.io, (React.js, Ruby on Rails) (www.camellia.io)

Single-page responsive app with RESTful API - built for finding and reviewing teas

- **Typeahead search**: Intelligently decides how to generate search suggestions based on the query, minimizing unnecessary HTTP requests
- **Custom star-rating selector for reviews**: Layers CSS backgrounds and HTML elements to allow mouse position to determine number of stars displayed
- **Image uploading**: Accesses the FormData web API to transfer files to the server for upload, keeping the UI clean and consistent across the site



Stuff Picker, (JavaScript) (www.fuchssarahe.github.io/stuff_picker)

Browser-based activity picker built in vanilla JS and canvas

- Dynamically renders content by direct DOM manipulation, avoiding bulky frameworks and keeping the product lean
- Integrates with navigator/geolocation web API and Google Maps API, handling interactions uniquely based on user permissions



Baby Active Record, (Ruby, SQL)

Basic version of Active Record (library for object relational mapping in Rails)

- Emphasizes metaprogramming and object inheritance (while eliminating the magic around Rails)



SOFTWARE SKILLS:

Web: JavaScript, React.js, Flux, Ruby, Rails, SQL, Git, jQuery, HTML, CSS, RSpec, jBuilder, Capybara

Engineering: MATLAB, Autodesk Inventor, CrystalMaker, ABAQUS, CES EduPack

WORK EXPERIENCE:

Technical Support Specialist - Merus, Inc (June 2015 – April 2016)

Data Migration, Engineering Team Liaison

- Crafted SQL queries to manipulate, update, and clean 1000s of GBs of client data
- Steered the data migration process, resulting in the successful onboarding of 10+ firms
- Coordinated with software engineers, the sales team, and legal professionals to always achieve our 99% data transfer guarantee

Biomaterials Research - The Ohio State University (OSU) (Aug 2014 – May 2015)

- Iteratively designed and implemented an experiment to decrease the release rate of an anti-fertility drug for controlling feral dog and cat populations using polymer-fiber capsules
- Ultimately reduced release rates by ~200%, achieving long-term release
- Presented at the 6th Annual Engineering Capstone Design Showcase at OSU

R&D Welding Engineering Intern - The Lincoln Electric Company (May 2013 – Aug 2013)

- Invented welding process which combines two types of welding (flux and gas shielded) to achieve a stronger, purer weld

EDUCATION:

App Academy, San Francisco - May 2016

- 1000-hour course in web development (<3% admission rate)

B.S. Materials Science & Engineering, The Ohio State University – 2015

- Graduated *cum laude* (GPA: 3.6)