Sarah Fuchs

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PROJECTS (solo development):

Camellia.io *(React.js, Ruby on Rails)* | **LIVE - GITHUB**

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

Chord Generator *(Ruby, JavaScript, Python)* | **GITHUB**

Command-Line tool for teaching guitar chords - reproduced in 3 different languages

- **Ruby**: Tree data structure used to quickly find chords to display to the user
- **JavaScript**: Asynchronous functionality handled differently to provide identical user experience between implementations
- **Python**: Taught myself Python for the express purpose of building this project with a new, unique set of language-specific limitations

Stuff Picker *(JavaScript)* | **LIVE - GITHUB**

Browser-based activity picker built in vanilla JS and canvas

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

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 staff to achieve 99% data transfer

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* | *Cum Laude* (GPA: 3.6)