Christopher Umbach

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PROJECTS

Moodly (Rails, React) | Team Project: *Full-stack engineer*   demo | live | github
Web app for tracking emotional wellness
- First-place prize winning app for Microsoft's DevWeek Hackathon Challenge
- Worked as part of a 5-member team to build an emotional wellness app over 30 hours
- Utilizes Cortana's Text Analytics, Face, and Emotion Machine Learning APIs
- Implements facial recognition authentication - Users express an emotion as a password

FoodieFridge (Rails, React) | Individual Project: *Full-stack engineer*   live | github
Unique web app for finding recipes based on ingredients in your fridge
- Implements custom authentication using BCrypt to store password as secret hash
- Search feature updates results in real time by utilizing the public API from Yummly.com to retrieve recipes.
- Utilizes intuitive HTML5 drag-n-drop UI to create filters and additional search options

Bomberman.js (Javascript, HTML5 Canvas) | *Front-end engineer*   live | github
Based on the classic game for Nintendo
- Implemented the use of sprites
- Checks for sprite collisions using HTML5 Canvas

JQuery Lite + Snake (Javascript) | *Front-end engineer*   live | github
A JS library that mimics jQuery's DOM manipulation, traversal, and selection abilities
- Utilizes DOM interface to create powerful methods that simplify client-side HTML scripting.
- Implemented HTML-based Snake game with AI opponent using my jQuery Lite.

SKILLS

Ruby, Javascript, Rails, jQuery, React.js, HTML, CSS, SQL, git, RSpec, HTML5 Canvas

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EDUCATION

Web Development - *App Academy, SF (Fall 2015)*
- 12-week intensive Full-Stack web development course
- Built lightweight versions of ActiveRecord and Rails, in addition to JQuery.

BS in Biochemistry, Business Minor - *Lehigh University, PA (2012)*
- Graduated with Honors, 3.43 GPA

EXPERIENCE

Extractions Chemist - *Con-Test Analytical Laboratories, MA (Feb - Oct 2015)*
- Extracted chemical compounds from environmental soil and water samples using standard practice methods for analysis of potential pollutants
- Employed various sample management and troubleshooting techniques for sample control failure at GC-MS analysis stage

Trade Advisor - *Ubifrance - French Trade Commission, NYC (2012-2014)*
- Performed a wide range of consulting services for early and middle-stage French companies in the pharmaceutical, biotech and medtech industries
- Worked closely with other team members, as well as with French clients and American contacts in order to facilitate their expansion in the United States