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Jeff Caves, PhD

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SUMMARY

Biomedical engineering researcher turned software engineer, interested in digital health.

LANGUAGES AND TECHNOLOGIES

React, Redux, Ruby on Rails, JavaScript, Backbone, MySQL, Git, HTML5, CSS3, jQuery

EMPLOYMENT HISTORY

Software Engineer | LiveRamp 2016 - present

- Provided fullstack development and on-call support for React / Rails web applications.
- Designed and built Rails APIs and a webhooks framework used by major brands.
- Collaborated with fast-paced product and developer teams in an Agile / Scrum framework.

Postdoctoral Research Fellow | Stanford School of Medicine 2014 - 2015

- Collaborated with a Stanford cardiologist on a medical device innovation projects including catheter tools, devices to treat diabetes, and wearable sensors.
- Conceptualized a cardiac tissue imaging strategy and initiated a research collaboration leading to an issued utility patent.
- Applied 3D printing to biomedical design problems, recognized by local and national news outlets.

Instructor + Research Faculty | Harvard Medical School 2012 - 2014

- Designed a research project using stem cells for hernia repair, resulting in a $150,000 research grant and a utility patent application.
- Mentored lab personnel, maintained lab safety standards, and interviewed PhD research candidates.

RECENT PROJECTS

Word Bonanza | Full-Stack Engineer | http://wordbonanza.herokuapp.com

Browser game that presents a series of scrambled words for the user to decode.

- Queried the Wordnik API, retrieving words for the user to unscramble using a Ruby on Rails backend.
- Scrambled words, detected user input, tracked game time, and calculated user scores with Backbone.js.
- Stored high-scoring users to postgreSQL database and presented dynamic UI using CSS 3D transforms.

Science Fair BnB | Full-Stack Engineer | http://scifairbnb.herokuapp.com

Web application that facilitates the filtering and viewing of a set of rental listings.

- Filtered listings simultaneously by price, location, and other parameters using Backbone.js.
- Consumed Google Maps API to display listings regionally and update based on map bounds.

EDUCATION

Certified Scrum Master Training 2018
Bradfield School of Computer Science, API Design Course 2017
App Academy, Software Engineering Immersive 2014
Georgia Tech, Ph.D. Bioengineering 2008
Rice University, B.S. Mechanical Engineering, *summa cum laude* 2000

PERSONAL

Tennis Player, Orchid Grower, Traveller