## Josh Brickman

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**Portfolio:** https://jpbrickhouse.github.io/portfolio/

## Summary

Full Stack Web Developer, with extensive experience in creative problem solving, honed over nearly a decade in the building design industry. Strong project management and team leadership skills, developed through long-term collaboration with architects, contractors, and fellow structural engineers. Excited to leverage interdisciplinary knowledge and insight, and inspired to build the future through code.

## **Technical Skills**

HTML, CSS, Javascript, jQuery, Responsive Design, MySQL & Sequelize, Security & Session Storage, MERN Stack (MongoDB, Express is, React is, Node is), User Authentication, GitHub, Heroku

# **Projects**

**Hexagon Spelling** Github: https://github.com/JPBrickhouse/hexagon-spelling

Deployed: https://hexagon-spelling.herokuapp.com/

- Solo project, built primarily with React and Javascript, and deployed on Heroku with the MERN stack
- A reverse-engineered version of the New York Times Spelling Bee game with a responsive interface

**FitUp** Github: <a href="https://github.com/JPBrickhouse/FitUp">https://github.com/JPBrickhouse/FitUp</a>

Deployed: http://project-two-2020.herokuapp.com/

- Generate and save workouts from a randomized list of exercises, which are sourced from a custom API
- Application is built with Javascript, jQuery, MySQL & Sequelize, and features user authentication
- Served as project manager and back-end lead, ensuring that all routes correctly acquired data

**Picniq** Github: https://github.com/JPBrickhouse/Picniq

Deployed: https://jpbrickhouse.github.io/Picniq/

- Plan socially distanced picnics; this app discovers restaurants that offer delivery to your favorite parks
- Application is built with Javascript and jQuery, calling to several APIs for restaurant and park data
- Served as team lead, delegating tasks and ensuring that page content was accurately served to users

## **Experience**

Magnusson Klemencic Associates (MKA), Structural Engineer, 2013 to 2020

Worked as a senior design engineer alongside architects and contractors to ensure timely analysis, design, and construction of unique projects and structures, including the following:

- 150 N. Riverside, Chicago, IL Performed site visits & construction review for 50-story tapering tower
- Epic Systems, Verona, WI Designed complex steel framing for a multi-campus corporate office park
- 5th and Brazos, Austin TX- Dynamically optimized concrete structure for 34-story mixed-use tower

#### Education

**Northwestern University** 

Certificate in Full Stack Web Development, 2020 University of Illinois at Urbana-Champaign Master of Science. Structural Engineering, 2013 University of Illinois at Urbana-Champaign Bachelor of Science, Civil Engineering, 2012

### **Achievements**

NASA and HeroX - Lunar Loo Challenge, First Prize Winner, 2020

Collaborated with three engineers to design the Translunar Hypercritical Repository 1 (THRONE). This next-generation space toilet – intended for astronaut use in orbit, on the Moon, and beyond – was selected by NASA from more than 2000 submissions: https://www.nasa.gov/feature/nasa-nameslunar-loo-challenge-winners/