

# Josh Brickman

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**LinkedIn:** <https://www.linkedin.com/in/joshpbrickman/> | **GitHub:** <https://github.com/JPBrickhouse>  
**Portfolio:** <https://jpbrickhouse.github.io/portfolio/>

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## 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.

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## Technical Skills

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

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## 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 revered engineered version of the New York Times Spelling Bee game with a responsive interface

**FitUp**      Github: <https://github.com/JPBrickhouse/FitUp>  
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
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## 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
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## Education

<b>Northwestern University</b>	<i>Certificate in Full Stack Web Development, 2020</i>
<b>University of Illinois at Urbana-Champaign</b>	<i>Master of Science, Structural Engineering, 2013</i>
<b>University of Illinois at Urbana-Champaign</b>	<i>Bachelor of Science, Civil Engineering, 2012</i>

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## 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-names-lunar-loo-challenge-winners/>