

Josh Brickman

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Portfolio: <https://jpbrickhouse.github.io/portfolio/>

Summary

Full stack web developer with a certificate from Northwestern University's School of Professional Studies. Strong aptitude in developing solutions for complex problems across a multitude of disciplines. This expertise was developed over nearly a decade in the building design industry, collaborating extensively with architects, contractors, and fellow structural engineers on massive projects across the Midwest. Excited to leverage engineering and coding experiences in the technology sector.

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

Projects

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

Eat Da Burger

GitHub: <https://github.com/JPBrickhouse/burger> | Deployed: <https://burger-2020.herokuapp.com/>

- Perform CRUD operations (Create, Read, Update, and Delete) and interface with a MySQL database
 - Application is built with Javascript and jQuery, and utilizes a template engine (Handlebars)
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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
 - 5h and Brazos, Austin TX- Dynamically optimized concrete structure for 34-story mixed-use tower
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Education

Northwestern University

Certificate in Full Stack Web Development, 2020

University of Illinois at Urbana-Champaign

Master of Science, Structural Engineering, 2013 | 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-names-lunar-loo-challenge-winners/> & <https://www.herox.com/LunarLoo>.