

# Mohammad Majd

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## Projects

**InsanFran** (Ruby on Rails, PostgreSQL, React, Flux)

[Live](#) | [Github](#)

*Full-stack app for sharing San Francisco photography (inspired by Instagram)*

- Utilizes raw SQL queries to create a filtered feed on the user home page
- Implements Infinite Scroll by fetching three posts at a time from database when user has scrolled to bottom of page
- Custom user authentication system that utilizes BCrypt library to hash passwords

**99Bridges** (Ruby on Rails, React, Flux, React-Bootstrap)

[Live](#) | [Github](#)

*Original full-stack application to locate and track information on bridges*

- Google Maps API to place map, markers, and info-windows in the document
- Represents the surface area of a bridge with a Google Maps polygon object
- Custom user authentication system that utilizes BCrypt library to hash passwords

**Sudoku Solver** (Javascript, HTML5 Canvas)

[Live](#) | [Github](#)

- Uses a backtracking algorithm to solve a stored or user-created sudoku board
- Processes animations asynchronously from a queue for algorithm visualization

**Tron** (Javascript, jQuery, HTML5, CSS)

[Live](#) | [Github](#)

- Game logic tracks player and wall locations to detect collisions
- All rendering done by manipulating HTML elements and CSS with jQuery

## Skills

Ruby	Javascript	React.js	Redux	HTML	SQL
Ruby on Rails	jQuery	Flux	Git	CSS	

## Education

**App Academy** | San Francisco, CA | 2016

- Immersive full stack web development course with < 3% acceptance rate
- Emphasis on Ruby, Rails, React, OOP, test driven development, pair programming, algorithms, data structures, scalability, and programming best practices

**Drexel University** | Philadelphia, PA | 2004-2010

- BS/MS in Civil Engineering

## Work History

**Structural Engineer** - *Ammann & Whitney* | Philadelphia, PA | 2013- 2016

- Oversaw the design of a steel-girder bridge with architectural landscaping that spans the Vine Street Expressway (I-676) in Philadelphia.
- Developed VBA Macros to accelerate the analysis of output from 3-D structural modeling programs; these tools were implemented throughout the company for several large projects

**Bridge Designer** - *Speciality Engineering Inc* | Bristol, PA | 2009 - 2013

- Trained and managed a small team that performed 3-D structural analyses and planned rehabilitations of curved ramps along the Interstate-95 highway.
- Developed a structural analysis program for arch bridges using MATLAB that automated analyses and allowed engineers to avoid error-prone calculations