

# Brendt Bly

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## Portfolio:

<http://brendtbly.com>

## Technical Skills:

- Javascript
- Node.js
- AngularJS
- React.js
- Redux
- Axios
- Express
- SQL/PostgreSQL
- MongoDB
- Angular Material
- jQuery
- Passport
- Knockout.js
- HTML 5/CSS 3
- Bootstrap
- Bulma
- Spectre.css
- Heroku
- Git
- Python
- Adobe Photoshop

## Education

### Prime Digital Academy

October 2017

Full-Stack Software  
Engineering Certification

### Japanese Language

#### Proficiency Test

November 2006

Class 2 Certified.

### University of St. Thomas

May 2006

Masters of Arts in Education

### St. Olaf College

May 2003

Bachelor of Arts in  
Chemistry, Minor: Molecular  
Biology

## Recent Projects

### Project: No More Pain

May 2018

- Finding effective treatment for an injury can be very difficult. This app lets users share what worked for them.
- Objectives: I built this app to learn state management with Redux.
- Technologies used: MongoDB, Express, React.js, Redux, Axios, Node.js, Spectre.css.
- Link: [nomorepain.herokuapp.com](http://nomorepain.herokuapp.com)

### Project: MERN Passport Stack Tutorial

February 2018

- When I was learning React, I couldn't find a satisfactory tutorial on adding a server with authentication to a React app, so I made one.
- Objectives: To help myself and other developers understand each part of the MERN stack involved in authentication.
- Link: [github.com/b-bly/simple-mern-passport](https://github.com/b-bly/simple-mern-passport)

### Project: Simon game clone

December 2017

- Simon was a handheld memory game in the 1980s. It flashes colors in increasingly long sequences and the user tries to repeat it back.
- Objectives: I built this in order to learn the fundamentals of ReactJS and to apply principles of object-oriented programming in the game logic.
- Link: <https://b-bly.github.io/simon/>

## Experience

### Prime Digital Academy

June 2017-October 2017

*Full Stack Software Development Student*

*Individual Project:* Pirate Storytime, a web application that allows you to store and search for story ideas to tell young children.

- I enjoy making up and telling pirate stories on the spot for my nephew and niece. However, when I'm tired it can be hard to do without prompt. Wouldn't it be nice to have a site that would give me a few pirate story ideas on which to base my story? Pirate Storytime allows you to store your story ideas and share them with others.
- With Pirate Storytime, users can add their story ideas in five categories of story elements. They can choose to make these public or keep them private. They can also search through the public cards and add them to their favorites. When you're ready to tell your story, one card of each type is randomly selected from your favorites.
- Technology used: MongoDB, Express, AngularJS, Node.js, Javascript, Angular Material and Filestack.
- Link on [brendtbly.com](http://brendtbly.com)

### Group Project: Belwin Outdoor Science

- Belwin Outdoor Science is a nature conservancy where elementary school students conduct wildlife research. The teachers at Belwin used to distribute data sheets for students to fill out during their research. This makes it difficult to process the class data for the day. They do not save student research because it would be too much work to enter the data from the 10,000 students that visit each year.
- My development team and I built a mobile web app that allows students to enter their data on a mobile device and save it. After collecting research, teachers can easily generate reports that allow them to examine data as a class. Research is automatically saved in the database, so valuable student research is not lost.
- Technology used: PostgreSQL, Express, AngularJS, Node.js, Javascript, Angular Material, Passport.
- Link on [brendtbly.com](http://brendtbly.com)

*Chemistry Teacher*

### Minnetonka High School

Dubai International Academy, Dubai, UAE

Tamagawa Academy, Tokyo, Japan

American International School

September 2014-August 2015

January 2014-June 2014

September 2011-August 2013

April 2009-August 2011

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- Collaborated with coworkers to create inquiry-based curriculum, where students come up with their own research questions and investigate them.
- Managed classes of thirty students with diverse backgrounds, establishing an atmosphere of appreciating one another's culture.
- Created interactive activities with apps such as Schoology, Explain Everything, Socrative, Notability and Kahoot.
- Incorporated data logging devices in laboratory assessments and taught students to analyze data with spreadsheets.
- Supervised independent student research and placed third in the MEF International Research Competition in the chemistry category.
- Designed classrooms and chemical storage for classrooms at the school's new location.

### **Gakubun Jr. High School**

Kobe, Japan

*Assistant English Teacher*

August 2008-March 2009

- *Collaborated with Japanese English teachers to create communication and fluency-focussed lessons.*