

# Justin Good

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## Experiences

Grand Valley State University, Allendale MI, 2012 - 2015  
Bachelor of Science in Computer Science with a Minor in Anthropology

City of Wyoming 05/13/2015 - 11/13/2015  
Intern and lead developer of a data entry and reporting tool used by the Public Works department.

## Projects

### PW3K

Data entry and reporting responsive web application for the City of Wyoming's Public Works department.  
Main application developer. Researched platform options and built from scratch using PHP, Microsoft SQL server 2008, Javascript, HTML, CSS, JQuery.

As the main developer I was a part of the entire design and implementation process, including:

- Periodically meeting with the application's end users to establish requirements, report progress, and facilitate quality testing.
- Rapidly prototyping designs in vector editing software then implementing them with custom images and configurable color schemes.
- Developing and documenting thousands of lines of code as well as development environment setups.
- Creating an application that runs asynchronously between three machines.
- Training users and other developers on the software including how to maintain and advance it.

### Mutually Human Access App

Capstone application created by a team of four for iOS platform. Created for Mutually Human's child company GR Makers. The app was for end users to log into their accounts, access relevant information for their subscription to the Maker space, and be able to access the space via a BLE enabled door lock.

Aside from project responsibilities:

- meeting with sponsors
- coordinating tasks with the development group
- writing reports for academic credit

My main priority was the BLE door functionality. This task included writing objective-c client code to detect services and subscribe to a particular characteristic. As well as write Javascript server code to run in Node and validate user credentials.

## Skills:

(in order of familiarity )

Front End  
Javascript  
Jquery  
WebGL  
HTML  
CSS  
SASS/SCSS

Backend  
PHP  
SQL  
ODBC  
Python

Other Languages  
C, C++  
Objective C  
Java

Misc  
OpenGL  
WebGL  
Canvas  
Bash  
Git  
SVG  
D3

## Hobbies

Aquaponics - long term goal to run a local aquaponics farm.  
Data Tracking - exercising logs, time management logs, academic analysis  
Illustration - mostly digital character drawings with some icon and logo projects

My name is Justin Good and I'm a recent graduate of Grand Valley's computer science program. Web development is incredibly interesting to me, but I didn't get into it until my last semester as an optional project in one of my favorite classes (vector graphics). Once I saw how versatile and useful it was I took an internship that gave me enough freedom to design a project from scratch. That project is a web app data entry and reporting tool in use by the city of Wyoming.

I only have about 8 months of experience in web development. That experience includes back-end work: database design, stored sql procedure creation, PHP development, as well as version control setup and training. Also front end work: utilizing HTML5 elements, JavaScript, jQuery, the Zurb Foundation framework, Bootstrap, CSS/SCSS, D3.js data visualization in SVG, and responsive design.

Because I was the lead developer on a project from the ground up, I got a deep appreciation for good design techniques. A lot of my work felt like experimentation. That fostered an appreciation for design techniques through "learning the hard way". I would like my next work experience to be in a place that uses best practices, and has skilled developers that I can learn from.

I'm very interested in learning new and popular tools. Within the last few weeks I've gotten into utilizing Angularjs, alternative back-end frameworks like Django and Flask (python based), as well as WebGL, canvas, and SVG wrappers like Pixijs and Twojs for more enhanced user experience and animations.