

BRIAN ZALEWSKI

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Dear Prospective Employer,

I am new to the Dallas area and am currently seeking both full-time and freelance opportunities. I am a full-stack LEMP web developer with an educational background in Aerospace Engineering. My background makes me uniquely qualified for many complex projects that are beyond the scope of standard web design. I understand what it takes to make a successful website that aligns with core business needs. I have a strong interest in integrating open source software and you can see open source projects that I have contributed to at <https://github.com/MByteIQ>. I enjoy designing fast, modern websites that minimize database requests, reduce web requests, and have the “web application” feel.

Before I moved here, I was a web developer for a small publisher in Manhattan named Sequel Media Group. There, I redesigned the front-end and part of the back-end of <http://www.simplifiedish.com/>, a high traffic recipe website, using HTML5, CSS3, jQuery/JavaScript, and PHP/MySQL. The website uses a custom CMS which made redesigning the front end more challenging than designing a WordPress theme, for instance. I completed the redesign without any documentation and with minimal help from the developers of the custom CMS. During the redesign I used tools such as Grunt, SASS, AJAX, JSON, Photoshop, ZURB Foundation, and ImageMagick. I also included some advanced features on Simple Dish; advertisements are loaded incredibly fast using Friendly iFrames, the website loads different sections based on the device the visitor is using, and webpages that the user is likely to visit are preloaded. In the end, Simple Dish saw dramatic improvements in both speed and aesthetics which led to very large bounce rate improvements (25%+).

Prior to my employment at Sequel Media Group, I took several classes in object-oriented programming languages such as Java and C++ at Rutgers University. I also found my senior design project particularly interesting and decided to independently continue the project even after a grade was assigned. The project entailed designing a proof of concept prototype showing that it is possible to obtain the material properties of pharmaceutical tablets using ultrasound. I ended up developing a robotic prototype which is controllable by a web application connected to the robotic system over USB. The web application also interfaces with an oscilloscope over Ethernet which is controlled via AJAX commands written using the Tektronix API. To my knowledge, this is the first time that anyone has done this. The application includes other advanced features like a stepper motor acceleration ramping profile controller, a live pressure monitoring system, and data visualization tools for the ultrasound data. The web application was designed using Bootstrap, HighchartsJS, BreakoutJS, jQuery, and fft.js (a Fourier Transform library). You can see the web application at <http://ultrasound.io/>.

All in all, I believe my most valuable skills are not technical skills. My number one asset is my problem solving skills. I am a creative thinker and I enjoy developing solutions to complex problems in the most efficient way possible.

Regards,

Brian Zalewski
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