WILLEM C. VAN DAALEN

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PROJECTS

JOT.
MARCH 2014

Demo : jot-app.herokuapp.com | **Source** : github.com/wcvandaal/jot

Open-source note-taking application and markdown editor built with Backbone.js and Rails 4. Features live markdown rendering, syntax highlighting, PDF downloads, and live preview following, automatically positioning the output window to the location of the most recent user change. **Login:** *wvandaal*; **Password:** *password*.

PWRSLIDE
FEBRUARY 2014

Demo : wcvd.me/PwrSlide | **Source** : github.com/wcvandaal/PwrSlide

Open source presentation framework built using web components spec and Polymer.js. Includes responsive theme written in Sass and implemented using the 2012 flexbox spec. Registered with bower and on customelements.io.

ASTEROIDS
JULY 2013

Demo : wcvd.me/Asteroids | **Source** : github.com/wcvandaal/Asteroids

A redesign of the classic arcade game, my implementation of Asteroids uses the HTML5 canvas element and vanilla JavaScript to handle the in-game physics and object rendering. Asteroid frequency and HP scale relative to the player score to provide a realistic skill curve.

EXPERIENCE

LEARNVEST, INC.
HARTFORD, CT
Software Engineer
June 2014 - Present

Proposed and implemented website performance optimization workflow, reducing load times by ~65% and payload size by ~50% on targeted pages. Designed flexible event aggregator plugin for Optimizely to prevent FOUC, reduce unnecessary CSS reflows, and facilitate bidirectional communication between Backbone SPAs and Optimizely, enabling A/B testing of dynamic content and improving load times and site UX while reducing payload size and number of HTTP requests. Prototyped and constructed new signup application for corporate clients using Backbone.js and Marionette with support for Backbone A/B testing, flexible form fields with custom validation, and an inter-module message passing system. Spearheaded project-wide code refactor, removing 16,000+ unnecessary lines of code and reducing total repository size by ~20%. Designed and introduced image optimization workflow with mobile-first design methodology for graphics team, reducing image sizes by ~60-80%. Designed and launched first company-wide education program for teaching web technologies and concepts to QA staff, expediting testing workflow and reducing developer involvement in quality assurance. Led technical talks on the topics of web components, (functional) reactive programming, service-oriented architecture, functional programming, and website performance.

TRINITY COLLEGE
HARTFORD, CT
Teaching Assistant
September 2013 - December 2013

Led weekly instructional sessions in topics related to introductory web design, including best practices in HTML, CSS, and unobtrusive JavaScript. Consulted regularly with course professor regarding course objectives, in-class assignments and teaching methods.

NYSE EURONEXT
NEW YORK, NY
Intern
June 2011 - August 2011; May 2012 - August 2012

Organized all major logistics for the execution and international live webcast of corporate speaking engagements featuring CEOs of Ford Motor Co. and Yum! Brands, resulting in 86% internal viewership (highest ever). Contributed to creating multi-year strategic partnerships with Bloomberg L.P., LinkedIn, and Discovery Communications.

EDUCATION

TRINITY COLLEGE, CLASS OF 2014
HARTFORD, CT

B.S. Computer Science and Hispanic Studies. 2013 Computer Science Presidential Fellow. Awarded Faculty Honors Fall 2009, Spring 2011, Spring 2012 - Fall 2013. Winner of 2013 Travelers Companies Foundation Senior Research Prize for "Muse.cd." Advanced coursework in Networks, Databases, Foundations of Programming Languages, and Web Design. Hispanic Studies senior thesis: "Ojos de España, bocas de México: construyendo una cultura en exilio" (wcvd.me/thesis.pdf).

TECHNICAL SKILLS

- JavaScript, jQuery, Backbone.js & Backbone.Marionette
- Test-Driven Development: Jasmine, Karma, Istanbul
- Server-Side: Node.js, Express, Jade/Handlebars, Grunt, Gulp, Require.js, Browserify
- HTML/5, CSS/3, Sass, Responsive Design
- SQL [MySQL, SQLite, PostgreSQL]
- VCS: Git, GitHub
- Ruby, Ruby on Rails