

# JAY SCULLIN

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## PROFILE

Full stack web engineer with 12+ years' experience planning, designing and developing successful websites and web applications. Extremely detail oriented, determined to deliver the best possible solution by utilizing proven, modern web frameworks and standards. Passionate about logical design and IA, writing clean, readable code and learning about the latest developments in the field.

## EXPERIENCED WITH

- **Frontend Web Technologies:** JavaScript [ES5+], React, JSX, AngularJS, Coherent UI, ESDoc, jQuery, HTML 5, CSS3, SASS, Less, JSP, PHP, Wordpress, Web Sockets (Socket.io), NoSQL (Couchbase, MongoDB), Docker
- **Development:** Git, Node, NPM, Gulp, MobX, Webpack, MVC pattern, Flux Architecture, Bootstrap, RESTful API, Microservices
- **Environments:** Windows, Linux (Ubuntu), OSX
- **Applications:** Sublime Text, Sourcetree, Perforce, Eclipse, Visual Studio, Adobe CC

## EMPLOYMENT HISTORY

### Senior Web Engineer, iRacing.com, Bedford MA

2009 - Present

*Develop and improve customer-facing public and member websites. Take concepts and regulations from real professional racing and build them out as features for use by paying subscribers in an online racing simulator. Collaborate with a small team to design the overall user experience, plan and design the user interface, and then build it using JavaScript, JSP (2009-2014) and React (2014-Present).*

### Selected Projects:

- **iRacing "Scorpio" (2014-Present):** Took an aging Struts-based member site architecture and rebuilt them from the ground up. Presented a modern interface and style suitable for any design or web-based application. Selected a solid single page web application framework and game engine middleware then created a development stack that would allow the development team to build and contribute quickly and easily.
  - Planned and designed an all new user experience that could be reused in every area of the member website, and a new look and feel that could be used in web properties, videos, and print material.
  - Selected alternative middleware (Coherent UI) for using web code as a video game interface.
  - Presented several proof-of-concept projects using the latest SPA architectures.
  - Built out a new frontend architecture based around generic, reusable code.
    - Reusable React web components built with.
    - A unified stylesheet built on top of Bootstrap 4 using a custom library of SCSS files.
    - A RESTful frontend to interact with a new DataAPI built with Socket.io.
  - Introduced a modern development stack with NPM, React, Flux, Gulp, ESDoc, ESLint, and NGINX.
  - Provided a development wiki and included support for auto-documentation using ESDoc
  - Created an extensive development roadmap detailing out every major checkpoint towards project completion.
- **Race Guide (2013):** Created a new way to join races, depicting them in a "TV Guide" inspired user interface.
  - Designed and presented a user interface representing how the user might interact with this new feature.
  - Developed feature using JavaScript and JSP while interfacing with intermediary AJAX system.
  - Modified and extended Java backend to support new data from existing MySQL database.

- **Racing Leagues (2012):** Designed and built an interface where users can create, join, and manage their own racing leagues.
  - Took existing member site interface and created a modern look and feel for this and future features using pure CSS, as opposed to sprites.
  - Created a series of mockups depicting several different use cases including:
    - Finding and joining a league
    - Creating and customizing a league
    - Managing league members
  - Collaborated with backend developer to build out a simple RESTful API to support new features
  - Developed feature on top of existing Struts architecture using JavaScript and JSP.
- **iRacing Forums (2011):** Took a free Java-based forum framework and completely redesigned and rebuilt the template system to be used with iRacing software.
  - Designed an entirely new look and feel for the iRacing forum
  - Took open-source forum software (jforum) modified it to suit the needs of iRacing members and staff
    - Added blackout capability to restrict certain forums to staff and alpha testers
    - Integrated with existing member list and member data
    - Added support for member avatars, licenses, stats, and helmets
  - Rewrote the frontend markup for the base template system, bringing it up to the latest HTML and CSS standards while improving the overall and page HTML structure.
- **Public Websites (2009-2011):** Worked directly with marketing and art director to design, brand, and build several public-facing websites and landing pages based on Wordpress and custom RESTful APIs.
  - A public website for the iRacing.com brand, along with a way for marketing to create unique landing pages. (Wordpress)
  - Racing news website supporting original and aggregate news sources (Wordpress)
  - Several directed landing pages advertising new iRacing features including:
    - NASCAR Hall of fame exhibit
    - iRacing Leagues
    - iRacing TV Video Podcast
    - iRacing Live: A place to watch live sim-racing broadcasts.

#### **Web Designer, Conversion Associates, Allston MA**

2008 — 2009

*Supported the companies' custom analytics platform "CAP" by working with clients to design and build custom websites for their businesses.*

- Worked closely with clients to rebrand their business with new logos, websites and print material
- Designed and built 10+ Wordpress sites.
- Contributed to development of proprietary .ASP platforms.

#### **Delivery Intern, Bridgeline Digital, Burlington, MA**

2007-2008

*Worked with development team and marketing team to create branded advertising, and to provide support for public web projects and marketing emails. Made contributions to development of main product: "iAPPs", built with .ASP.*

#### **Freelance Web Developer and Designer**

2003-Present

*Built Wordpress sites, provided support for existing websites, and designed print and branding materials for small companies around New Hampshire and Massachusetts. In addition to individual clients, worked with several large contracts providing UI/UX support and frontend development.*

## EDUCATION

### **University of Massachusetts, Lowell, Lowell MA**

2004 — 2008

- Graduated with honors with a BFA specializing in Web Design and Development.
- Member of the National Honors Society.
- Achieved highest-in-class GPA in concentration.

### **Merrimack College, North Andover, MA**

2004

- Majored in Computer Science

## AWARDS

- 2008 Best in class, Dugan Senior Show, Lowell MA (personal website)

## APPEARANCES AND SPEAKING

- 2015 iRacing TV Video Devblog "Rebuilding iRacing's User Experience" (youtube.com)
- 2013 UML Web Design Roundtable, Lowell MA