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San Francisco Bay Area

Marshall Upshur

Objective I'm a progressive web technologist focused on creating beautiful, easy to use, goal oriented web applications using cutting edge technologies across all devices.

Professional Experience

Senior Software Engineer   06/2015 – Now
Netflix (Product/TVUI)

- Member of the TVUI team, which builds the Netflix application user interface across game consoles, smart TVs, and set top boxes in JavaScript.
- Responsible for adding RTL (right to left) language support to the TV user interface for Netflix's global launch, primarily for Arabic speaking countries.
- Built a new architecture for our React rewrite to handle data driven OSK (on screen keyboard) layouts, transitioning away from pre-rendered images sprites.
- Other projects: pointer TV interaction in player screen, Netflix second screen support, API migration to vet new internal PaaS infrastructure, prototyping/vetting new Netflix SDK features.

Lead Software Engineer   06/2014 – 06/2015
Nike (Nike+)

- Led development efforts around prototyping/creating a card based stream of consumer sport activity using React, ES6, and Node/IO.
- Built reusable JavaScript activity components for use on future Nike+ member services products.
- Built processes and automation tools for testing and continuous delivery of future products in the cloud (Amazon Web Services), using Node.js, gulp.js, Karma, mocha, and PhantomJS.

Front End Engineer   07/2012 – 6/2014
Comcast Silicon Valley Innovation Center

- Built new consumer facing apps for the XFINITY X1 ecosystem, utilizing AngularJS, Node.js, and PHP to create and demonstrate dynamic experiences for the TV and other platforms.
- Contributed to codebase for the new XFINITY Text Messaging experience for customers, building integral features in the application using Node.js, Express, Backbone.js, HTML5/CSS3, and a few custom JavaScript plugins/modules. Contributions helped quickly get XTM ready for production by getting rid of bugs, implementing some key features, improving accessibility, and integrating the stack to key backend Comcast services for customer opt in/out.
- Helped research, implement, and increase accessibility/usability standards across XFINITY Connect products, using HTML5, ARIA, semantic HTML techniques, and custom JavaScript libraries.
- Lead on developing proof of concept for completely re-envisioned email front end, utilizing technologies such as HTML5/CSS3, jQuery, RequireJS, and Bootstrap.
- Created, built and stabilized products/features of XFINITY Connect consumer facing products using PHP, HTML5/CSS3, and jQuery. Quickly came on board and helped rapidly fix numerous development and production level bugs.

IT Applications Engineer   09/2011 – 07/2012
Netflix (Enterprise Services)

- Built custom front end for the internal helpdesk's ServiceNow implementation focused on ease of use and creating a unified UI, utilizing the system's internal CMS, JavaScript (Prototype), HTML/CSS, AJAX, and dynamic Jelly templating. Led design of the UI using mockups and comps in Photoshop, Balsamiq, and white boarding.

- Built several integration mechanisms via JavaScript, Perl, and Java for dynamic ticket creation and functionality on top of ServiceNow's SOAP web service stack. Integrations also built internal to the system via email parsing with backend JavaScript.
- Built a simplified internal services dashboard prototype, using Ruby on Rails for MVC backend, Bootstrap for responsive UI development, HTML5/CSS3, and jQuery. Designed UI with Photoshop, and experimented with backend API using Node to interface with other systems.

Application Developer / Analyst, Lead   02/2008 – 09/2011
Emory University (University Technology Services)

- Built custom SLA workflows in ServiceNow that could adapt to various customers needs from one JavaScript code base. This allowed for workflows to behave differently based on university division, impact of service, etc. without multiple SLA definitions.
- Refactored numerous client modifications on task forms within ServiceNow, reducing form load times from 30s to 2s on average. This was accomplished using a combination of code review and runtime debugging via Firebug and Chrome developer tools to find logic and efficiency issues in front/back end JavaScript.
- Built numerous custom enhancements within ServiceNow, including custom status pages/UI's, backend business rule logic, and client side usability enhancements using JavaScript (prototype), internal CMS, HTML/CSS, AJAX, and dynamic Jelly templating.
- Built custom email parsing in JavaScript within ServiceNow, to help facilitate automatic ticket creation within the system, as well as providing ticket updates. Other automation integrations were developed via PHP on top of the SOAP web service stack.
- Designed, architected, and built custom web applications for campus needs using PHP5, Zend Framework, Dojo and jQuery JavaScript libraries, and HTML/CSS. UI's focused on single page workflow based designed, utilizing Ajax, XML, and JSON to pass back and forth HTML layout partials and data.

Systems Support Specialist II   06/2004 - 02/2008
GA Tech (Academic Research Technologies)

- Designed, architected, and built a majority of the code base for a campus classroom recording system, utilizing PHP5, an in house MVC framework, SOAP web services, HTML/CSS, JavaScript, C#, and platform technologies like Helix Service/Producer and Windows Media Server/Producer for digital media. System employed a distributed client/server model, with a master control web application allowing monitoring and control via SOAP messages to client systems (custom in house configured video capture), which intelligently encoded and uploaded digital media to the master-streaming server.
- Developed code for a communication program using the DVTS to send raw digital video streams back and forth across a high-speed network in C++.
- Developed code in C for an in house H.323 gatekeeper system, utilizing network management software to track calls and overall health of video conferencing units used around campus.
- Researched various solutions for desktop video conferencing and assisted in leading projects for streaming events around campus. Two top projects include setting up for a silicon lab demonstration to a middle school science class and a presidential led university fundraiser.

Technical Proficiencies
Languages: PHP, HTML, CSS, XML, Java, JavaScript, AJAX, ASP.NET (C#), ActionScript (minimal), Ruby (minimal), Sass/LESS, CoffeeScript
Development Strengths: Object Oriented, Relational Databases, MVC, Design Patterns
Technologies: React, AngularJS, Backbone.js, Browserify, Webpack, LAMP, Drupal, Wordpress, Zend Framework, jQuery, SOAP, REST, MySQL, SVN, Git, Node.js, Express, , Backbone.js, AngularJS, React
Software: Adobe Creative Cloud (Photoshop, Illustrator, Flash)
Operating Systems: Windows, OS X and UNIX/Linux

Certifications
Certified Scrum Master (CSM)   05/2011
ITIL - Release, Control and Validation Certification   05/2010
ITIL - Foundation in IT Service Management v3 Certification   06/2009

Education **Bachelors Degree in Computer Science**
Southern Polytechnic State University, Marietta, GA   *05/2002 - 05/2004*

Freshman – Junior years in Computer Science
Georgia Institute of Technology, Atlanta, GA   *06/1997 - 12/2001*

Self Projects In an effort to stay in touch with the latest technologies and trends, I am always tinkering with new tech with hobbies, social "meet up" activities, (lots of) reading various books on different tech, or outside projects to keep my skills razor sharp. For more on that, be sure to check out **marshallupshur.com**.