Stephen A Thomas
Front End Web Development

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About Me

Front end architect with extensive experience in modern web development and a passion for delivering exceptional user experiences. Grounded in the ethnographic foundations of usability and human computer interaction with a deep understanding of front end development based on the principles of accessibility, progressive enhancement and responsive design. Introduced and tutored development teams in the adoption of leading front end technologies such as MV• frameworks and test-driven development. Work experience includes corporate enterprises and service providers, as well as charitable support of non-profit organizations including the Centers for Disease Control and the World Health Organization.

Skills & Areas of Expertise

Skill	Level
JavaScript	●●●●●●
Backbone.js	●●●●●○
jQuery	●●●●●●
REST	●●●●●○
HTML5	●●●●●●
CSS3	●●●●●●
Responsive Design	●●●●●●
Progressive Enhancement	●●●●●●
Accessibility	●●●●○○
User Research	●●●●○○
Usability Testing	●●●●●○
Test Driven Development	●●●●○

Work Experience

Front End Architect at Dell SecureWorks 2007 to present

Responsible for all aspects of front end design and development for web and mobile applications. Conducted in-person and remote user research including contextual inquiry, card sorting, cognitive analysis, and usability testing. Defined requirements, completed analysis, and developed prototypes of web application frameworks, libraries, and tool chains based on HTML5/CSS3/Javascript. Introduced development team to MV• and data visualization frameworks (Backbone.js and D3.js). Created style guides, coding standards, and test-driven development processes. Developed complete front end implementation (HTML, CSS, and Backbone.js-based Javascript) for Customer-facing Web Portal.

Chief Architect at Wave7 Optics 2001 to 2006

Led design and development of IP-based optical network architecture for the delivery of video, voice and data services in business and residential applications.

Chief Technical Officer at TransNexus 1997 to 2001

Led technical development for startup company creating financial clearinghouse for Internet-based communication services.

Publications

Javascript for Data Visualization. (Book under contract with major publisher. Current draft available on request.)

"Simple Responsive Images with CSS Background Images." published 22 July 2013 on *Smashing Magazine*.

"Unit Testing Backbone.js Applications." published 25 February 2013 on *JSPRO.com*.

"Web-Based Visualization." published 5 November 2012 on *UICloud*.

HTTP Essentials: Protocols for Secure, Scaleable Web Sites. John Wiley & Sons: New York, 2001.

SSL & TLS Essentials: Securing the Web. John Wiley & Sons: New York, 2000.

Education

Master of Science from School of Electrical Engineering. Georgia Institute of Technology. Atlanta, Georgia. 1994. GPA: 4.0 (A=4).