JOSEPH P. BOYLE
USER EXPERIENCE ENGINEER

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🎓 EDUCATION

2012 ● Master of Human-Computer Interaction
Carnegie Mellon University

2011 ● B.S. Computer Science, with Highest Distinction
University of Virginia

-Minors in Systems Engineering and Applied Mathematics

💼 EXPERIENCE

2012-now ● Senior Interaction Designer
Eaton Corporation

-Designed and developed multiple web-based power monitoring applications using JavaScript, HTML, and CSS
-Validated potential product designs through user testing and prototype iteration
-Created reusable library of styled Web Components to enable rapid application development that meets design standards

2012 ● Technical Lead, Documentation Co-Lead
MHCI Capstone Project, Carnegie Mellon University

-Collaborated with start-up Shoefitr to revolutionize the online shoe shopping experience
-Investigated shoe shopping behaviors and performed evaluations of existing products to identify areas for improvement
-Shoefitr aquired by Amazon in April 2015

2010-2011 ● Researcher, Developer, Co-Author
"Using Crowdsourcing to Enhance Crisis Management"

-Investigated open-source crowdsourcing platforms and their applicability to crisis situations
-Developed a suite of applications for mobile and web
-Presented system to the American Red Cross, FEMA, and at the Frontiers in Education: Computer Science and Computer Engineering Conference, 2012

2009-2010 ● JavaScript Programmer
Telos Corporation

-Built and tested JavaScript library to test system compliance with suggested protective measures for security issues
-Created a framework to automate test script generation for newly released security patches

2006 ● Laboratory Intern
Sandia National Laboratories

-Developed and grew various crystal compounds with emphasis on nanoparticle synthesis
-Authored and presented "Synthesis and Characterization of Novel Bismuth Precursors for the Production of Bismuth-based Nanomaterials"

WHAT TO EXPECT

As a UX Engineer, I bridge the gap between designers and developers. I pride myself on my ability to find clever solutions to complex design and programming problems. I've worked on software products spanning embedded, mobile, and desktop applications, consistently delivering exceptional results. I adapt quickly and am not afraid to jump into unfamiliar territory and learn new skills.

HCI METHODS

Wireframing ● ● ● ● ●
Prototyping ● ● ● ● ●
Heuristic Evaluation ● ● ● ● ○
Affinity Diagramming ● ● ● ○ ○

Contextual Inquiry, Modeling, Speed Dating, Storyboarding, Think-Alouds

PROGRAMMING

JavaScript ● ● ● ● ●
HTML/CSS ● ● ● ● ●
Polymer ● ● ● ● ○
React ● ● ● ○ ○

Actionscript, C++, C#, ExtJS, Java, PHP, SASS, SQL, XAML, XML

SOFTWARE

Adobe Illustrator ● ● ● ● ●
Visual Studio ● ● ● ● ●
JIRA ● ● ● ● ○
Microsoft Office ● ● ● ○ ○

Photoshop, InDesign, Axure, Eclipse, Camtasia Studio, Expression Blend, Flash, Git, Proto.io, Team Foundation Server, Wordpress

HONORS & AWARDS

Dean's List
Rodman Scholar
Intermediate Honors
URDS Finalist
Louis T. Rader Honorable Mention