

Micah Herstand

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Who I Am Proactive full-stack developer, empathic communicator, curious experimenter. Perceptive user advocate. Life-long learner and avid reader of tech research and trends.

10+ years designing and developing customer facing websites
5+ years researching and implementing human-centered design
2 published research papers in HCI and Information Systems

What I Want To be challenged, to learn, to wear many hats, to obsess over customers and user experience. To contribute to open source projects. To collaborate on a team where everyone's voice is respected and valued. To be involved in strategy and design discussions early and often.

What I Know **Front-End Web Development**

HTML5, CSS3, OO JavaScript (various frameworks), internet browser debugging

Back-End Web Development

Java, Python, OO PHP, SQL, REDIS, Apache, Nginx, AWS, Linux/Unix (incl. SSH, vi, git)

Full-Stack Development

Distributed system architecture via microservices, RESTful API architecture and use; Open Data integration; SQL database creation and use; web application security / threat mitigation

Collaboration and Communication

Agile software development, meeting planning and facilitation, public speaking and speech-writing, white-paper development, cultural competency, team advocacy

Where I Hustled **Self-Employed Freelancer**

Full-Stack Developer and Instructor, Fall 2002–Present

- Developed ringbling.org, using three.js for 3D modeling
- Taught Data Science and Web Development courses for Startup Institute
- Setup and documented AWS architecture for early-stage startup SOAR Baltimore
- Built AriseTake.com on LAMP stack, including custom blogging backend

TodayTix, The Broadway Ticket App

Full Stack Developer, April 2015–March 2016

- Integrated PayPal, USPS API, and custom RESTful API
- Re-architected large legacy code-base, oversaw Apache to Nginx transition
- Discovered and fixed web application security holes, performed SQL fraud audits
- Interacted with REDIS database
- Led meetings with marketing team to explore customer engagement initiatives
- Proactively built internal tools to increase employee productivity

Shopbop, an Amazon.com company

Web Development Engineer, September 2013–June 2014

- Designed and developed user-facing features for e-commerce site with millions in revenue
- Mocked-up prototypes and led meetings to discuss them
- Contributed to company-wide style guide and widget directory

Wisconsin State Court System

Web Developer and Designer, February 2013–August 2013

- Designed, developed, and deployed Scala-based web apps
- Discussed and advocated for user needs and UI standards

AT&T, tSpace (internal social network)

Full-Stack Developer, November 2011–September 2012

- Responsible for full lifecycle development of high performance, large-scale applications
- Worked with team to scale apps for >100,000 users and millions of requests per day
- Trained in and executed Agile Methodology using Rally Software

Washington University in St. Louis

Web Designer and Researcher, February 2011–August 2011

- Designed new interfaces and built high-fidelity prototypes to test user interaction
- Supported technological evolution through white papers on ajax and the mobile web

Human-Computer Interaction Researcher, September 2008–August 2011

- Published award-winning research and developed popular app “Looking Glass”
- Designed and conducted user studies, performed heuristic evaluations of interfaces

Digital Enterprise Research Institute, Galway, Ireland

Research Fellow, June 2010–December 2010

- Led front-end engineering of an interactive enterprise data management platform
- Co-wrote and published first-of-its-kind research on enterprise Linked Data

Quad Connect, a social/local/mobile app

Technical Co-Founder, Spring 2009–Spring 2010

- Architected code using Java with Google Web Toolkit
- Recruited and led team of programmers

What I Published

Edward Curry, Souleiman Hasan, Umair ul Hassan, Micah Herstand, and Sean O’Riain. “An Entity-Centric Approach to Green Information Systems.” European Conference on Information Systems (2011).

Paul Gross, Micah Herstand, Jordana Hodges, and Caitlin Kelleher. “A Code Reuse Interface for Non-Programmer Middle School Students.” International Conference on Intelligent User Interfaces (2010). *Awarded Best Paper

Where I Presented

March 2017 NYC Startup Institute, *Data Science and Engineering for Marketers*
April 2015 NYC Startup Institute, *JavaScript for Startups*
December 2014 Four Seasons Theatre, lead actor, Tony-award winner Karen Olivo director
February 2013 Washington University “Leading Together” \$2.5 billion fundraiser
February 2011 St. Louis UX Conference, *The Next Decade of Web Design*
December 2010 o91 Labs, Galway, Ireland, invited speaker, *Linked Data and the Semantic Web*
January 2010 Olin Cup Student Entrepreneurship Competition (winner)
January 2010 Semantic Web MIT workshop with Web founder Sir Tim Berners-Lee SMC
October 2009 St. Louis Social Media Club Panelist, *Semantic Web*
June 2009 IxD Association St. Louis Invited Speaker, *Semantic Web Design*
Nov. 2006 Washington University in St. Louis, Art Scholar Speaker
April 2006 Wisconsin Forensics Coaches Association public speaking state champion