Nicholas Hoyt
Front-End Developer

Address: Urbana, Illinois, USA

Portfolio: https://nicholashoyt.com/portfolio

Phone:

Email:

With over 20 years of front-end development and user interface design experience, my professionalism and track record of success are based on choosing technologies that are both maintainable and understandable by other developers, and on maximizing user experience by focusing on users' goals in relation to product features.

Experience

University of Illinois Urbana-Champaign   Sept. 2005 – present

Served as lead interaction and user interface designer, as well as co-developer, of web applications and browser tools focused on web accessibility evaluation.

Several of these tools have been adopted by the University of Illinois and other large university systems (e.g. Penn. State, Indiana University, Ohio State, University of Iowa) as their tools of choice for web accessibility evaluation.

- Designed and co-developed the Functional Accessibility Evaluator, a web application that spiders websites and produces site-wide reports on WCAG compliance.
- Designed and co-developed the AInspector for Firefox browser extension, which does the same type of evaluation as FAE for a single web page.
- Designed and developed two additional browser extensions: SkipTo Landmarks & Headings and Page Structure.
- Designed and co-developed the A11yFirst plugins for CKEditor, which provide proactive guidance for accessible authoring
- Designed and co-developed the Accessibility Bookmarklets, easily installable in any browser.

Independent Contractor, Chicago, IL   Aug. 1999 – Sept. 2005

As owner and principal consultant of Web UI, Inc., provided software design and development services with a focus on user interface design and front-end development for various clients, including ABN AMRO, Accenture, Allstate Insurance, Bank One, Fidelity Investments, HOLT Value Associates and the Illinois Institute of Technology.

- Updated the Contribution Calculator I had previously designed and developed for Fidelity Investments.
- Authored an ebook on XML and XSLT development for internal use by Accenture developers.
- Designed a web application for use by call center representatives at Allstate Insurance.
- Designed the user interface of a Java application for use by financial portolio managers for HOLT Value Associates.

Fidelity Investments, Boston, MA   Aug. 1997 – Aug. 1999

Served as lead interaction designer in the redesign of NetBenefits, a web application providing retirement savings account access to over one million customers. Improved the user experience through contextual inquiry, task flow analysis and usability testing.

Designed and developed retirement investing tools for 401k.com, Fidelity's website for institutional investors. Tools included the Contribution Calculator, Withdrawal Calculator and Take Home Pay Calculator.

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Education

B.A. in Computer Science, University of Massachusetts Boston, 1991
Summa cum laude

Introduction to Programming in Pascal, Harvard Extension School, 1988
Grade: A

Jazz Composition & Arranging major, Berklee College of Music, Boston, MA
Seven full-time semesters, 1981–1984, GPA of 3.85/4.0

Skills

Front-End Development
- JavaScript (ES6 and later), HTML, CSS, DOM scripting and event handling
- Responsive design, web components, custom element authoring, Lit, React
- WebExtensions API

User Interface Design
- Experience with creating wireframes, interactive prototypes, user stories
- Usability testing and accessibility evaluation

Web Accessibility
- WCAG requirements
- ARIA Authoring Practices, ARIA in HTML

Web Development
- Git, Node.js, npm, Babel, webpack, Rollup, Gulp, Sass
- Python, Django, XML/XSLT

Resources

Browser Extensions & Plugins
- [Page Structure for Firefox](#)
- [SkipTo Landmarks & Headings for Chrome](#)
- [SkipTo Landmarks & Headings for Firefox](#)
- [A11yFirst plugins for CKEditor](#)
- [AInspector for Firefox](#)
- [Accessibility Bookmarklets](#)

Code Repositories
- [Page Structure](#)
- [SkipTo Landmarks & Headings](#)
- [Copy Page Link](#)
- [AInspector for Firefox](#)