

# Nicholas Hoyt

## UX/Interaction Designer

Phone:

Address:

Email:

Portfolio: <https://nicholashoyt.com/portfolio>

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Interaction/UX design professional with over 20 years of experience in conducting user research activities such as task modeling, wants and needs analysis, contextual inquiry and user interviews; creating design artifacts such as conceptual models, wireframes, paper and interactive prototypes; and informing design decisions through iterative usability testing.

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## Experience

2005-09 – present

### Interaction Designer, Front-End Developer

University of Illinois Urbana-Champaign

Designed and developed the Page Structure browser extension for Firefox, which displays the structural labels on a web page, including its page title, headings, and landmarks, for web accessibility evaluation. Released in April 2022 and available at the [Firefox Addons website](#).

Designed and collaboratively developed the AInspector browser extension for Firefox, which performs detailed evaluations of web pages across twelve categories of WCAG and ARIA accessibility requirements. AInspector has been updated to version 2.0 with significant enhancements released in 2022. Available for installation at the [Firefox Addons website](#).

Designed and developed the SkipTo Landmarks & Headings browser extension for Chrome and Firefox, released in June 2021. The extension enables keyboard-only users to efficiently navigate the important headings and landmarks on a web page. A complete description of the SkipTo extension with installation links is available at <https://skipto.github.io>.

Served as lead designer and developer for the A11yFirst Project in the creation of five accessibility-focused plugins for CKEditor. Released in 2019, the plugins proactively guide content authors as they edit, enabling them to create documents that meet WCAG accessibility requirements. More details are available on the [CKEditor Addons website](#).

1999-08 – 2005-09

### Interaction Designer, Front-End Developer

Web UI, Wheaton, IL

As owner and principal consultant of Web UI, Inc., provided software design and development services with an emphasis on interaction design and front-end development for various clients, including ABN AMRO, Accenture, Allstate Insurance, DeVry University, Fidelity Investments, HOLT Value Associates and the Illinois Institute of Technology.

1997-08 – 1999-08

### Interaction Designer, Front-End Developer

Fidelity Investments, Marlborough, MA

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

### Interaction Design

- Requirements gathering and analysis
- Development of conceptual models, personas, scenarios
- Essential use cases, user role- and task-models
- Creation of wireframes using Sketch, OmniGraffle and Figma

### User Research & Information Architecture

- Field observations, contextual interviews
- Task-modeling workshops, wants and needs analysis
- Card sorting exercises, focus groups
- Paper prototyping, low-fidelity prototypes

### Usability Testing & Analysis

- Creation of interactive HTML/JavaScript prototypes
- Facilitation of remote and lab-based usability testing
- Quantitative and qualitative analysis of test results

### Front-End Development

- JavaScript, HTML, CSS, DOM scripting and event handling
- WCAG 2.0 accessibility requirements
- Responsive design
- Web components, WebExtensions API

## 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](#)

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