

Todd Jollo

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Project: NWEA MAP Student assessment application, AngularJS to React modernization

Year: 2021- 2023, Placed on hold during acquisition of NWEA by HMH

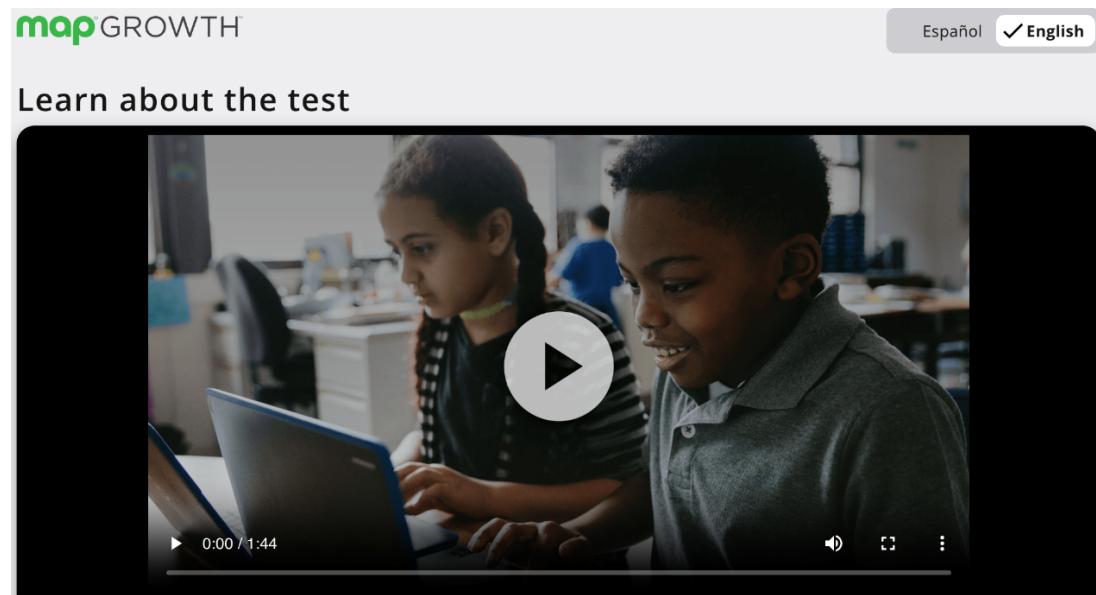
Job Title: Software Engineer

Work Performed:

- The original AngularJS student application was being converted to a modern ReactJS application.
- I developed ReactJS components and responsive interfaces for the national NWEA MAP Student Testing Application.
- I used Design System components and specifications to create the application UI, ensuring it met modern accessibility requirements.
- As a Certified Scrum Master, I led agile ceremonies, promoted agile processes, and improved software development methodologies within the Engineering Item Experience team.
- I collaborated with accessibility team members and UX designers to develop the student application and tested the UI for compliance using JAWS and macOS accessibility tools.

Technology Stack:

TypeScript, TypeScript JSX, JavaScript, ReactJS, CSS Modules, Web Components, Ava/Jest (Unit Testing), Cypress (Functional Testing), Jenkins, Git, Figma



The screenshot shows the NWEA MAP Growth website. At the top, there's a language selection bar with "Español" and "English" (with a checkmark). Below that, a video player displays a scene of two students, a girl and a boy, working on a laptop together. The video has a play button in the center and a timestamp of "0:00 / 1:44". Below the video, there are three buttons: "Practice Test" (with a document icon), "Student Resources" (with a pencil and wrench icon), and "Test Session Login" (with a checklist icon). The NWEA logo is at the bottom left, and a copyright notice at the bottom right states: "© NWEA 2022. MAP is a registered trademark. NWEA, MAP Growth and MAP Skills are trademarks of NWEA in the U.S. and in other countries."

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Project: NWEA Measures of Academic Progress (MAP) Student assessment application

Year: AngularJS Application Creation – 2013-2014

Job Title: Multimedia Developer

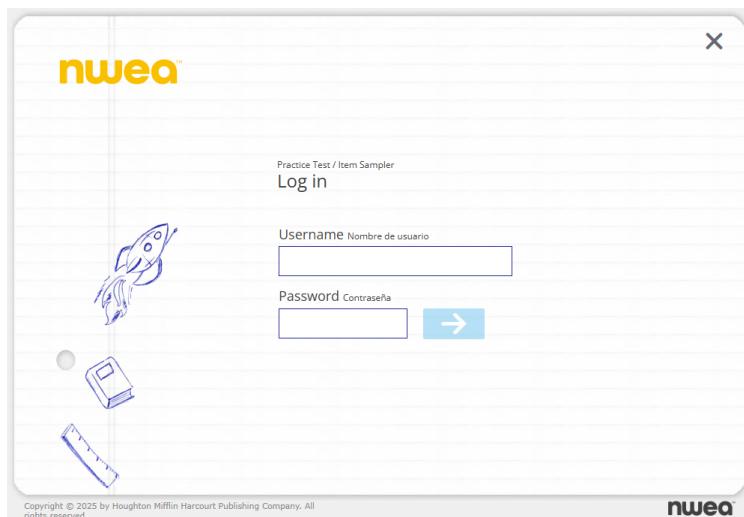
Work Performed:

- One of the first NWEA engineering team members transitioning to modern web application development, I helped create the first AngularJS 1 application for thousands of concurrent NWEA student users.
- I worked to match the graphical user experience of the MAP testing CD-based application.
- Using AngularJS 1, I created partials, AngularJS code (Model-View-Controller), and LESS CSS.
- I collaborated with accessibility stakeholders to incorporate best practices for accessibility at the time, and designed the UX and interaction patterns for the MAP accessibility toolbar, defining how assistive tools look, behave, and integrate into the testing experience.
- I redesigned the speech stream audio experience for MAP student testing, improving usability, clarity, and learner control during assessments.
- Converted thousands of Flash interactive test questions into interactive HTML, JS, and CSS.
- I also worked with designers to update graphics for the new Angular application, replacing outdated Java Rich Faces system alerts.
- Coordinated with product representatives for beta testing and the final production release.

Technology Stack:

AngularJS 1, CSS Preprocessor LESS, Jasmin/Chai (Unit testing), Protractor Functional testing, Jenkins Build Pipelines, Git, Grunt, Bower, Yeoman (front-end trifecta), Photoshop, Illustrator, JAWS

URL (Public URL): [Test Player https://practice.mapnwea.org/#/practice-landing](https://practice.mapnwea.org/#/practice-landing)



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Project: NWEA Design System

Year: Design System Project - 2016-2020

Job Title: UX/UI Developer

Work Performed:

- The NWEA Design System served as a guide specifically for software application products developed by NWEA engineering teams.
- As one of the founding engineering members of the NWEA Engineering User Experience team, I helped write the initial UX Charter for NWEA.
- I coordinated the three core teams involved with NWEA's Design System: Accessibility, Design, and Engineering.
- As Scrum Master for the NWEA Design System, I helped track the agile work.
- I developed and deployed the ReactJS website, integrating Sketch design documents and incorporating the functioning web components.
- I developed Design System web components that met WCAG compliance for Section 508, with a specific focus on foundational CSS components and buttons.
- I developed and implemented the Node Design System library, which was integrated into engineering builds using NPM installs.
- I provided technical assistance to teams implementing the Design System via NPM.

Technology Stack:

ReactJS, CSS Modules, Web Components, Storybook, InDesign, Sketch, Illustrator, Jenkins, Git

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The screenshot shows the 'Buttons' component page from the NWEA Design System. On the left, there's a sidebar with a dark background and white text containing a 'CONTENTS' section and links to 'Anatomy', 'Hierachy and Usage', 'States', 'Spec Sheet', and 'Implementation'. The main content area has a light gray background. At the top, the word 'Buttons' is centered. Below it is a text block explaining that buttons communicate actions and how a hierarchy system helps users. A link to a component repository is provided. Further down, under the heading 'Anatomy', there's a 'Content' section with a note about buttons containing text, icons, or both, and a diagram showing three button types: 'Text' (purple), 'Icon and Text' (purple with a white arrow icon), and 'Icon' (purple with a small white icon). Under 'Sizes', it says there are three sizes: AAA (height: 44px), Large (height: 40px), and Small. A diagram shows three buttons of decreasing size labeled 'AAA', 'Large', and 'Small'.