

# NICHOLAS RAY

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## EMPLOYMENT

<b>Senior Software Engineer</b>	<b>Wikipedia (Wikimedia Foundation)</b>	<b>July 2018 - Present</b>
<ul style="list-style-type: none"><li>• Reduced visual regressions by developing a <a href="#">visual regression tool</a> that was used each week to catch UI bugs before users saw them and increased confidence in releases to production.</li><li>• Built performant scroll bolding functionality for a new table of contents on the desktop site that eliminated forced synchronous layouts.</li><li>• Improved the desktop search experience by developing a new typeahead search component in Vue.js and TypeScript.</li><li>• Increased robustness of the desktop search component by implementing synthetic test telemetry to measure its rendering performance.</li><li>• Optimized the desktop site's article readability, accessibility, and performance by developing a new limited-width layout to support a line length that enhanced the reading experience.</li><li>• <b>Skills and technologies:</b> JavaScript, Node.js, Vue.js, Jest, HTML, CSS, LESS, PHP, Docker</li></ul>		
<b>Software Engineer</b>	<b>UpWell (formerly Alliance Health)</b>	<b>August 2014 – April 2018</b>
<ul style="list-style-type: none"><li>• Engineered a multithreaded shipment service using Java that emitted RabbitMQ messages with each new shipment and featured a RESTful API.</li><li>• Led a migration process to move apps from the PCF platform to the ECS platform, resulting in savings of over \$100,000 / year and improved stability.</li><li>• Refactored a real-time leaderboard single-page application using Java for the backend and React for the front-end.</li><li>• <b>Skills and technologies:</b> JavaScript, Java, Ruby, Kotlin, Go, React, Docker, HTML, CSS, PHP</li></ul>		

## TECHNICAL EXPERIENCE

### Projects

- [nray.dev](#) (2022). Using TypeScript, React, Next.js, and Tailwind CSS, I designed and developed my portfolio site which features a technical blog about front-end development.
- [nomadnav](#) (2020). Using Flutter, Dart, Node.js, Docker, and PostgreSQL, I created a mobile app that enabled car campers, van dwellers, and anyone else to find free dispersed campsites with internet access.
- [Jank](#) (2019). Using React, I developed an interactive slideshow about front-end rendering performance that I presented to my team at Wikipedia.
- [FeedSlider](#) (2018). Developed a JavaScript widget and Node API SaaS that enabled users and businesses to display their Instagram feed on their website easily. Configured front-end to run on S3 with Cloudfront CDN and backend to run in a Docker container cluster using Amazon Elastic Container Service.
- [OutTraverse](#) (2017). Built a Node static site generator that parsed markdown and compiled it to HTML and PDF formats, resized images into a set of responsive images, and supported extendable shortcodes. Created a JavaScript widget that interactively displayed the elevation profile of routes.

## EDUCATION

<b>Eugene, OR</b>	<b>University of Oregon</b>	<b>September 2012</b>
<ul style="list-style-type: none"><li>• Bachelor of Science (Pre-med curriculum). GPA: 4.02</li><li>• Graduated summa cum laude (top 2%). Member of Phi Beta Kappa Society</li></ul>		

## Languages and Technologies

- JavaScript; Node.js; React; Jest; HTML; CSS; Tailwind CSS; Docker