

# NICHOLAS RAY

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## EXPERIENCE

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<b>Senior Software Engineer</b>	<b>Wikipedia (Wikimedia Foundation)</b>	<b>July 2018 – Present</b>
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- Developed UI features for desktop and mobile sites that received over 20 billion views per month across 300 languages
- Reduced visual regressions and saved hours of manual review each week by building a [visual regression tool](#)
- Won “Web Performance Hero” award, given to individuals who have gone above and beyond to improve web performance
- Improved amount of searches started by 30% by developing a new typeahead search component
- Increased navigation to different sections by 50% by creating a new table of contents with scroll state
- Decreased scrolling to top of page by 16% by implementing a sticky header with frequently used editor tools
- Eliminated layout shifts that occurred when lazy loading/client-side rendering components
- Prevented performance regressions of search component by implementing synthetic test telemetry to measure its rendering performance
- Optimized readability, accessibility, and performance of desktop site by developing a new limited-width layout
- Onboarded new engineer and increased their productivity by meeting with them weekly for 8 months and developing a “quick start” repo that empowered them to push to production on their third day
- **Skills and technologies:** TypeScript, JavaScript, Jest, HTML, CSS, LESS, Docker, PHP, Node.js, Puppeteer, Vue.js

<b>Software Engineer</b>	<b>UpWell (formerly Alliance Health)</b>	<b>August 2014 – April 2018</b>
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- Saved over \$100,000 / year and improved stability of business-critical services by leading a migration process from Pivotal Cloud Foundry to AWS Elastic Container Service platform
- Expanded business capabilities by engineering a multithreaded shipment service with a REST API
- Improved stability and code quality of a React single-page application that utilized server-sent events
- **Skills and technologies:** React, JavaScript, HTML, CSS, Docker, PHP, Java, Ruby, Kotlin, Go, AWS, Git

## SOFTWARE PROJECTS

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- [nray.dev](http://nray.dev) (2022). Personal site and technical blog I developed using TypeScript, React, Next.js, and Tailwind CSS
  - [Front-end Performance Presentation](#) (2019). An interactive slideshow about front-end rendering performance I created using React and presented to my team at Wikipedia
  - [Backpacking Blog](#) (2017) Developed a Node.js 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. Built an interactive component using JavaScript that showed each trip’s route and elevation profile

## EDUCATION

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<b>Eugene, OR</b>	<b>University of Oregon</b>	<b>September 2012</b>
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- Bachelor of Science. GPA: 4.02
- Summa cum laude. Phi Beta Kappa

## Languages and Technologies

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- JavaScript, React, TypeScript, Node.js, Jest, HTML, CSS, Git, Docker