

# 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 10 billion views per month across 300 languages
- Decreased bugs and saved hours of manual review each week by building a [visual regression tool](#) used by multiple teams
- Won “Web Performance Hero” award for going above and beyond to improve web performance
- Enhanced mobile site responsiveness by reducing total blocking time by nearly 0.5 seconds
- Accelerated decision-making processes by developing a tool to evaluate performance impact of potential production features
- Improved number of searches started by 30% by helping develop a new typeahead search component
- Increased navigation to different sections by 50% by helping create a new table of contents with scroll state
- Decreased scrolling to top of page by 16% by helping implement a sticky header with editor tools
- Eliminated layout shifts that occurred when lazy loading/client-side rendering components
- Minimized 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
- Helped develop a take-home coding exercise used by multiple teams to evaluate software engineering candidates
- Onboarded new engineer and increased their productivity by meeting with them weekly for eight 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). Technical blog developed using TypeScript, React, Astro.js, and Tailwind CSS where I write about front-end development with a focus on web performance.

## 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, SQL, Next.js, Astro.js, Tailwind CSS