

NICHOLAS RAY

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EXPERIENCE

Senior Software Engineer	Wikipedia (Wikimedia Foundation)	July 2018 – Present
<ul style="list-style-type: none">• Developed UI components for Wikipedia’s desktop and mobile sites which receive over 20 billion views a month across 300 different languages.• Reduced visual regressions that users experienced, saved hours of manual review/testing, and increased confidence in releases to production by developing a visual regression tool.• Enhanced user experience of desktop site by building performant scroll bolding functionality for a new table of contents that eliminated forced synchronous layouts.• Improved desktop search experience by developing a new typeahead search component in Vue.js and TypeScript and eliminated layout shifts that occurred when lazy loading/client rendering the component.• Prevented performance regressions of the desktop search component by introducing synthetic test telemetry to measure its rendering performance automatically.• Optimized desktop site’s article readability, accessibility, and performance by refactoring the DOM and developing a new limited-width layout to support a shorter line length.• Onboarded new staff member by being their “Onboarding Buddy”. Increased productivity and helped them navigate blockers by meeting with them weekly for their first eight months.• Reduced onboarding friction by developing a “quick start” repo that helped new developers acquire the necessary skins, extensions, seed data, and configuration to push to production within their first week.• Skills and technologies: TypeScript, JavaScript, Jest, HTML, CSS, LESS, Docker, PHP, Node.js, Puppeteer, Vue.js.		
Software Engineer	UpWell (formerly Alliance Health)	August 2014 – April 2018
<ul style="list-style-type: none">• Engineered a multithreaded shipment service using Java that emitted RabbitMQ messages with each new shipment and featured a RESTful API.• Saved over \$100,000 / year and improved stability of business-critical services by leading a migration process to move apps from Pivotal Cloud Foundry platform to the Elastic Container Service platform.• Improved stability and code quality of a React-powered real-time leaderboard single-page application through heavy refactoring.• Skills and technologies: React, JavaScript, HTML, CSS, Docker, PHP, Java, Ruby, Kotlin, Go.		

PROJECTS

- nray.dev (2022). Personal site and technical blog I developed using TypeScript, React, Next.js, and Tailwind CSS.
- [Jank](#) (2019). An interactive slideshow about front-end rendering performance I built using React and presented to my team at Wikipedia.
- [OutTraverse](#) (2017). A blog about my outdoor adventures powered by a custom-built 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. Using JavaScript, I built an interactive component that showed each trip’s route and elevation profile.

EDUCATION

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

Languages and Technologies

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