NICHOLAS RAY

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EXPERIENCE

Senior Software Engineer	**Wikipedia (Wikimedia Foundation)**	**July 2018 - Present**

- Reduced visual regressions by developing a visual regression tool that was used each week to catch UI bugs before users saw them and increased confidence in releases to production.
- Built performant scroll bolding functionality for a new table of contents on the desktop site that eliminated forced synchronous layouts.
- Improved the desktop search experience by developing a new typeahead search component in Vue.js and TypeScript.
- Increased robustness of the desktop search component by implementing synthetic test telemetry to measure its rendering performance.
- 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.
- **Skills and technologies**: JavaScript, Node.js, Vue.js, Jest, HTML, CSS, LESS, PHP, Docker

Software Engineer	**UpWell (formerly Alliance Health)**	**August 2014 – April 2018**

- Engineered a multithreaded shipment service using Java that emitted RabbitMQ messages with each new shipment and featured a RESTful API.
- 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.
- Refactored a real-time leaderboard single-page application using Java for the backend and React for the front-end.
- **Skills and technologies**: JavaScript, Java, Ruby, Kotlin, Go, React, Docker, HTML, CSS, PHP

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

Eugene, OR	**University of Oregon**	**September 2012**

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