Salt Lake City UT 84105 **NICHOLAS RAY** www.nray.dev
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EMPLOYMENT

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 to increase confidence in releases to production.
- Built performant section bolding functionality for a new table of contents on the desktop site.
- Improved the desktop search experience by developing a new typeahead search component written in Vue.js and TypeScript.
- Increased robustness of the desktop search component by implementing synthetic test telemetry to automatically measure its rendering performance.
- Optimized article readability, accessibility, and performance of the desktop site by developing a new limited-width layout to support a line length that enhanced the reading experience.
- Promoted to Senior Software Engineer in March 2021
- Promoted to Software Engineer III in July 2020
- **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 was backed by a RESTful API.
- Led a migration process to move apps from the PCF platform to the ECS platform which resulted in a 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 frontend.
- **Skills and technologies**: JavaScript, Java, Ruby, Kotlin, Go, React, Docker, HTML, CSS, PHP

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 frontend development.
- **nomadnav** (2020)**.** Using Flutter, Dart, Node.js, Docker, and PostgreSQL, I created a mobile app that let car campers, van dwellers, and anyone else find free dispersed campsites with internet access.
- **Jank** (2019). Using React, I developed an interactive slideshow about frontend rendering performance that I presented to my team at Wikipedia.
- **FeedSlider** (2018). Developed a Javascript (vanilla) widget and Node API SaaS that enabled users and businesses to easily display their Instagram feed on their website. Configured frontend to run on S3 with Cloudfront CDN. Configured backend to run in a Docker container cluster on 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 (similar to Wordpress and Hugo 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