NICHOLAS RAY

Salt Lake City, UT • www.nray.dev • github.com/nicholasray • nray@nray.dev

EXPERIENCE

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

- 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's responsiveness by reducing total blocking time by ~500ms on low-end devices
- Accelerated decision-making 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

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

- 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

- **nray.dev** (2022). Developed a technical blog using TypeScript, React, Astro.js, and Tailwind CSS where I write about front-end development with an emphasis on web performance

EDUCATION

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

- Bachelor of Science. GPA: 4.02
- Summa cum laude. Phi Beta Kappa

Languages and Technologies

- JavaScript, React, TypeScript, Node.js, Jest, HTML, CSS, Git, Docker, SQL, Next.js, Astro.js, Tailwind CSS