

# Nicholas Ray

385-439-7700 | [nray@nray.dev](mailto:nray@nray.dev) | [www.nray.dev](http://www.nray.dev)

## EXPERIENCE

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### Senior Software Engineer

**NRAY LLC**

June 2023 – Present

*Salt Lake City, UT*

- Started profitable business, developed online platform using JavaScript, TypeScript, React.js, HTML, CSS

### Senior Software Engineer

**WIKIPEDIA**

July 2018 – June 2023

*Remote*

- Co-developed Wikipedia's 2023 redesign, achieving over 10 billion monthly page views
- Reduced bugs and tedious manual QA by leading development of a visual regression tool, used by multiple teams
- [Authored over 500 commits](#) to core open-source projects powering Wikipedia
- Awarded "Web Performance Hero" for going above and beyond to improve rendering performance
- [Reduced total blocking time](#) by ~300ms on low-end mobile devices visiting long articles
- Accelerated decision-making by developing a CLI tool to evaluate performance impact of potential features
- Increased number of searches by 30% by helping develop a new typeahead search component with Vue.js
- Boosted section navigation by 50% by co-developing 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
- Assessed performance impact of features by writing comparative synthetic performance tests
- Minimized search component performance regressions by implementing synthetic test telemetry
- Optimized desktop site's readability, accessibility, and performance by developing a new limited-width layout
- Developed take-home coding exercise for evaluating software engineer candidates, used by multiple teams
- Improved editing workflows for Wikipedia's mobile site
- Empowered new engineers to push to production within their first week by creating a "quick start" repo
- Mentored new engineer through weekly meetings, pair programming, and code reviews

### Software Engineer

**UPWELL**

August 2014 – April 2018

*Salt Lake City, UT*

- 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 RESTful API
- Improved stability and code quality of a React.js single-page application that used server-sent events

## PROJECTS

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[nray.dev](http://nray.dev) | *TypeScript, React, Astro, TailwindCSS*

2022 – Present

- Developed technical blog using TypeScript, React.js, Astro.js, and Tailwind CSS where I write about front-end development

[landingconvert.com](http://landingconvert.com) | *NextJS, TypeScript, React, TailwindCSS*

Sept. 2023 – Present

- Single-page application (SPA) directory using component-based architecture. Developed custom scraper written in Node.js to extract metadata and take full-page screenshots of websites from a list of URLs.

## EDUCATION

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### University of Oregon

*Bachelor of Science*

Eugene, OR

*Sept. 2012*

- GPA 4.02. Summa cum laude.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Node.js, PHP, SQL, HTML, CSS

**Frameworks/Libraries:** React, Express.js, TailwindCSS, NextJS, Astro

**Developer Tools:** Git, Docker, GitHub, VS Code, Puppeteer, Playwright, Jest