



# Daniel Richter

## Software Engineer

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### Work Experience



Senior Software Engineer *Feb 2018 — Present*  
Software Engineer *Sep 2015 — Feb 2018*

#### > Frontend Deployment

*Design deployment strategy for react applications*

- Build webpack plugin to exclude whitelisted dependencies from bundle, leading to a 50% reduction in static content size
- Build loader that includes bundle and shared dependencies on webpage

#### > Virence Migration

*Transition acquisition's frontend to React*

- Introduced several teams of AngularJS developers to React
- Architected solutions to maintain compatability with existing backend

#### > Nursing Flowsheets

*Build workflow for nurses to document patient assessments*

- Spearheaded the development of the company's first React application
- Reduced load and render time of data grid by upwards of 90% through virtualization and an upgraded API
- Lowered user documentation time by ~60% by condensing workflows

#### > Forge Design System

*Build React component library for our internal design system*

- Implemented generalized table and selection list components
- Pioneered process for decentralized teams to contribute to the library

#### > Messaging Operations

*Maintained message queuing system for contacting patients*

- Integrated a new messaging service provider to decrease cost per message from \$0.10 to \$0.03, saving ~\$4 million per year
- After enhancing monitoring with Grafana, identified bottlenecks and increased message completion rate from 99.3% to 99.97%

### Projects

#### > Portfolio Site

*My personal portfolio site*

- Built with React hooks, light and dark theme, and a responsive design
- Generates PDF copy of resume using puppeteer to screenshot the site

#### > Top Gamer

*An Elo inspired ranking system*

- Leaderboard for free-for-all or team games
- Currently used for Monopoly Deal

#### > Mario Kart Optimizer

*Tool for finding optimal character and kart configurations*

- Finds the configuration that maximizes the sum of the selected stats
- Allows components (i.e. character) to be locked and other components to be optimized

### Education



Bachelor of Science *Aug 2012 — May 2015*

- > GPA 4.0 — *Summa Cum Laude*
- > Majors Applied Physics & Computer Science
- > Minors Biology, Chemistry, & Mathematics
- > Honors Barry Goldwater Scholar

### Skills

#### > Programming Languages

- Javascript (ES6+), Typescript, GraphQL, CSS/Sass

#### > Libraries & Frameworks

- React, Gatsby, Node.js, Express

#### > Tools & Platforms

- Git, Netlify, Heroku