

# Ryan Louie

## SKILLS & QUALIFICATIONS

**Strong:** JavaScript, React, Node.js, TypeScript, Express, Vue, Webpack, Jest, Enzyme, MongoDB, HTML/CSS

**Prior Experience:** Java, Python, PHP

## EXPERIENCE

**Northrop Grumman** – *Government Defense Contractor*

**Software Engineer Product Lead**

*Feb 2020 – Current*

- Pioneered and built a no-code collaborative project management web application to expand addressable customer base by enabling groups to manage and configure their own workflows and deployments
  - Spearheaded weekly meetings with 8 engineering teams to discuss features that will enhance their experience
  - Increased code readability and ease of management by implementing TypeScript
- Drove product adoption by presenting to various Program VPs, resulting in a 50% increase in our user base
- Recruited and mentored 2 direct reports to ensure consistent service for internal business customers

**Software Engineer 2**

*Aug 2018 – Jan 2020*

- Designed, developed, and deployed a collaborative project management web application in cooperation with System Engineering VPs, enabling 8 engineering teams to complete milestones ahead of projected schedule
  - Supported ~1000 users across multiple areas, leading to thousands of man hours saved for a \$13.3B contract
  - Increased usability by working directly with stakeholders, leading to 40% time saved in the review process
  - Facilitated corporate Agile transformation initiatives by creating Agile workflows, improving visibility and communication between and within teams belonging to different organizations
  - Reduced deployment time by 75% and increased code confidence by utilizing Gitlab CI/CD pipeline and Jest
- Standardized data accessibility by creating RESTful APIs for a photo classification tool used in a \$10B contract
- Enabled efficient stakeholder decision making by creating views to visualize, analyze, and optimize system engineering product proposals, reducing time spent by 30% compared to legacy processes

**Electrical Engineer 1**

*Jul 2017 – Jul 2018*

- Revamped user accessibility by creating a modular web application to replace legacy change request software
- Utilized Python to automate and standardize end to end circuit information, reducing time spent by 75%

## PROJECTS

**Engineerly.co** – *Personal coding blog to share solutions and tutorials*

*Nov 2020 – Current*

- Optimized page load times by utilizing Next.js server side rendering, resulting in a 50% faster user experience

**Stock Trading Strategy Development**

*Aug 2018 – Current*

- Created an easy to use web application for individuals to simulate dollar cost averaging strategies using historical stock data pulled from Alpha Vantage

## EDUCATION

**University of Southern California**

*May 2017*

**Bachelor of Science Electrical Engineering, Emphasis in Computer Engineering**

*Major GPA: 3.6*

**Alpha Phi Omega - Professional Service Fraternity**

*Feb 2014 – May 2017*

**President**

- Directed initiatives within a ~100 member organization which increased member retention and resulted in the successful completion of 2500+ community service hours