ryanylouie.com
github.com/ryanxlouie
linkedin.com/in/ryanylouie/

(408) 489-0407
ryanloui95@gmail.com

Ryan Louie

SKILLS & QUALIFICATIONS

Strong: JavaScript, React, Node.js, TypeScript, Express, Vue, Webpack, Jest, Enzyme, MongoDB, HTML/CSS
Prior Experience: Java, Python, PHP

EXPERIENCE

C3 AI – *Enterprise AI Software*
Forward Deployed Engineer - Federal   *Jul 2021 – Current*
- Created interactive 3D trajectory visualizations in collaboration with data science leads to support key government demos, resulting in positive feedback from various company VPs and our customers President
- Implemented workflows utilizing Python to produce trajectory data on demand, reducing trajectory generation time by 90%, as well as saving terabytes in cloud storage

Northrop Grumman – *Government Defense Contractor*
Software Engineer Product Lead   *Feb 2020 – Jul 2021*
- 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
  - o Spearheaded weekly meetings with 8 engineering teams to discuss features that will enhance their experience
  - o 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
  - o Supported ~1000 users across multiple areas, leading to thousands of man hours saved for a $13.3B contract
  - o Increased usability by working directly with stakeholders, leading to 40% time saved in the review process
  - o Facilitated corporate Agile transformation initiatives by creating Agile workflows, improving visibility and communication between and within teams belonging to different organizations
  - o 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

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

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