

# Ryan Louie

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## EDUCATION & SKILLS

**University of Southern California**

May 2017

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

Major GPA: 3.6/4.0

### Technical Skills and Certifications

Languages: JavaScript, React, Express, Vue, Python

Security Clearance: Top Secret

## EXPERIENCE

**Northrop Grumman**

July 2018 – Current

*Full Stack Software Developer II*

- Designed, built, and deployed a fully integrated change request application.
  - Utilized GitLabs CI/CD pipeline for automated testing and build creation.
  - Jest for integration and unit testing.
  - RESTful API with Swagger file for documentation.
  - Worked closely with end users and upper management to develop a flexible architecture to support multiple builds for various programs.
- Helped develop the backend for a photo classification tool to aid in hardware validation and testing.
- Developed the frontend for a data set visualization tool.

**Northrop Grumman**

July 2017 – July 2018

*Electrical Engineer I*

- Created a beta web application to manage satellite command changes.
- Helped revise over 250 satellite electrical design diagrams.

**Department of Defense – USAMRIID**

June 2016 – August 2016

*Software Development Intern*

- Created custom Python scripts to automate data manipulation and analysis tasks.
- Designed interactive Python GUIs for human metabolomics research and liquid handling data entry.

**USC Image Processing and Informatics Lab**

June 2015 – August 2015

*Software Development Intern*

- Developed image processing software for tumor recognition in CT scans.

## LEADERSHIP & ACTIVITIES

**Market Dashboard**

January 2020 – Current

- Created a dashboard to display market data from a variety of online resources.

**Stock Trading Algorithm Development**

August 2018 – Current

- Developed algorithms that utilize a variety of technical indicators to predict short term stock movements.

**Alpha Phi Omega - Professional Service Fraternity**

February 2014 – May 2017

*President*

- Maintained website and updated various features to increase accountability.
- Volunteered 60+ hours mentoring children at Jordan Downs Housing Project in Watts.

**HOBBIES:** Volleyball, Technical Stock Analysis, Volunteer Coaching/Mentoring