

Ryan Louie

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EDUCATION & SKILLS

University of Southern California

Bachelor of Science Electrical Engineering, Emphasis in Computer Engineering

May 2017

Major GPA: 3.6/4.0

Technical Skills and Certifications

Languages: JavaScript, React, Express, Vue, Python

Security Clearance: Secret

EXPERIENCE

Northrop Grumman

Full Stack Software Developer II

July 2018 – Current

- 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

Electrical Engineer I

July 2017 – July 2018

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

Department of Defense – USAMRIID

Software Development Intern

June 2016 – August 2016

- 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

Software Development Intern

June 2015 – August 2015

- 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

President

February 2014 – May 2017

- 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