

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 Qualifications

Strong: JavaScript (React, Node.js, Express, Vue, Webpack, Jest, Enzyme), MongoDB, Gitlab CI/CD

Experienced: Redux, Python, MySQL, PHP, HTML/CSS, Nginx

Security Clearance: Top Secret

EXPERIENCE

Northrop Grumman – Government Defense Contractor

Jul 2017 – Current

Full Stack Software Engineer II

- Designed, built, and launched internal project management platform in collaboration with VP's in Product and Engineering teams, ease of use and accuracy allowed 3 deployment teams to complete milestones ahead of time
 - Spearheaded beta migration of application onto AWS to leverage increased storage and processing capability
 - Built in accessibility for other internal applications by expanding on back-end API compatibility
 - Preserved aesthetics across deployments by developing a front-end component library npm package
 - Reduced deployment time by 75% by utilizing Gitlabs CI/CD pipeline
- Developed API's for satellite photo classification tool in collaboration with cross functional engineering teams
- Built GUI for product development tool that streamlined component compatibility checks across multiple teams
- Created visual tool to advise project management team on optimal costs and capabilities in product proposals
- Mentored direct report and junior software engineers to ensure consistent service for internal business partners

Electrical Engineer I

- Created a change request application to replace existing legacy software that manages satellite command changes
- Automated satellite subsystem end to end circuit tests using Python, saving 100+ hours over the span of 3 months
- Supported satellite team in maintenance and analysis of command and telemetry data within structured database
- Revised over 250 electrical design diagrams to aid in acceleration of satellite hardware testing

Department of Defense – US Army Medical Research Institute of Infectious Diseases

Jun 2016 – Aug 2016

Software Development Intern

- Automated data cleaning, manipulation, and analysis of pathogen activity and development across multiple studies
- Designed interactive Python GUIs for ease of data entry in human metabolomics research

PROJECTS & LEADERSHIP

Equity Trading Strategy Development

Aug 2018 – Current

- Created a web application to simulate the effect of various technical indicator-based dollar cost averaging strategies in order to develop long term investment algorithms which would optimize overall return on investment
- Developed a variety of algorithms that utilize technical analysis to identify short term trading strategies, realized 20% return on \$10,000 within a 3-month time frame

Alpha Phi Omega - Professional Service Fraternity

Feb 2014 – May 2017

President

- Implemented various incentive programs and metrics to cultivate member retention and development
- Maintained website and updated various features to increase accountability for the club's 100+ members
- Volunteered 60+ hours mentoring children at Jordan Downs Housing Project in Watts

Interests: Volleyball, Technical Stock Analysis, Volunteer Coaching/Mentoring