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
Languages: Intermediate - Python, JavaScript (React and Vue)
                     Beginning - Java, C++, Matlab, Verilog

EXPERIENCE

Northrop Grumman   July 2018 – Current
Front End Software Developer
- Lead developer of a full stack application that seeks to expedite and enforce a specialized configuration management process.
  - Implemented with a ReactJS front end and an Express server back end.
  - Application utilizes RESTful APIs to query a NoSQL database.
  - Utilizes Gitlabs CI/CD pipeline and uses Jest for integration and unit testing.
  - Worked closely with end users and upper management to develop our widely used application.
- Principal back end developer for an application that seeks to categorize and search through photographs in order to aid hardware validation and testing.
- Lead the development of a ReactJS front end that helps users easily identify and manipulate relationships between datasets.

Northrop Grumman   July 2017 – July 2018
Electrical Engineer
- Lead the development of custom web based applications using HTML, Javascript, CSS, and PHP for use in various engineering departments.
  - Worked closely with upper management to target key aspects of their departments jobs for improvement.

Department of Defense – USAMRIID   June 2016 – August 2016
Software Development Intern
- Created custom Python scripts for scientists to help automate various tasks as well as perform data analysis to increase their efficiency.
- Designed interactive Python GUIs for human metabolomics research and liquid handling data entry.

LEADERSHIP & ACTIVITIES

Stock Trading Algorithm Development   January 2017 – Current
- Developing algorithms that utilize a variety of technical indicators to predict short term stock movements.
- Programs are written in Python and use RESTful APIs to fetch daily data from online resources.

Alpha Phi Omega - Professional Service Fraternity   February 2014 – May 2017
President
- Maintained website and updated various website functions to increase accountability.
- Volunteered 60+ hours mentoring children at Jordan Downs Housing Project in Watts.

HOBBIES: Volleyball, Technical Stock Analysis, Volunteering