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EVAN SOOHOO

EXPERIENCE

Software Engineer **Northrop Grumman, McClellan Park** **June 2016 - Present**

- Created an adapter to reformat and send radio data over a standard transport services segment layer
- Expanded capabilities for a pulse detector, implemented in C++, to support a new input data set, deliver a wider range of output fields, and dynamically resize structs to avoid wasting memory
- Supported a research team that used REDHAWK (a software-defined radio framework) and agile methodology by implementing a radio tuner and modifying a map visualization program
- Working on a web UI for the navy that requires skill in Vue, Cesium, and JavaScript
- Currently hold top secret clearance

Technical Writer Intern **Splunk, San Francisco** **June 2015 - September 2015**

- Responded to internal documentation requests using XML, GIT, JIRA and an internal documentation software
- Tested software procedures and contacted developers to produce new documentation

EDUCATION

Davis, California **University of California, Davis** **Graduated in June, 2016**

B.S. in Computer Science, minor in English. UC GPA: 3.41/4.00

Coursework: Software Engineering, Programming Languages, Operating Systems, Computer Architecture

ADDITIONAL EXPERIENCE

Projects

Vortex (2020): Building a new web UI for the Navy using an internal software system called Destiny, which leverages Vue.js and Cesium, to show military operators signals of interest. Coordinating with both designers and customers to create components that satisfy realistic needs in the field. Vue, Vuetify, JavaScript, Cesium

EMW Suite (2019): Demonstrated how middleware open source software like ZeroMQ and radio open source frameworks like REDHAWK were advantageous when integrated into Northrop Grumman's existing software. C++, REDHAWK, ZeroMQ, Git.

Pulse Detector (2016-2017): Developer in a 15-person team that expanded existing Electronic Intelligence (ELINT) capabilities to meet the next increment of customer requirements. My responsibilities included a rewrite of how memory was handled on the output side and changes to the output data fields, code changes to comply with new security standards, and a presentation I personally gave at a conference. C++, Vim, Apache Ant

Senior Design Project, Produce Facts (2015-2016). Developer in a four-person team that created an iOS application for the UC Davis Postharvest Department. Swift, Git

HONORS

- Bronze Award: For "thorough preparation and excellent presentation at the Global Hawk ASIP Increment 2 Build A Critical Design Review (CDR)"
- Silver Award: For "taking ownership of the TRON/ARGUS product and making improvements to better demonstrate payload capabilities"
- Regents Scholar: Most prestigious scholarship on the UC Davis campus

Languages and Technologies

Programming Languages: Most comfortable with C++, some experience in Java

Technologies: Linux, Git, vim, Visio, GNU Debugger, Fortify, ElectricCommander, ClearCase