Ivan Eduardo Guerra

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Education

University of Oklahoma: Norman, OK **Graduation Date:** May 2017
B.S. Computer Science

- **3.96**/4.00 Cumulative GPA
- Mathematics Minor
- Spanish Minor (Bilingual)
- Lean/6 Sigma Green Belt Certified
- University of Oklahoma Honors College

Professional Experience

Raytheon - Space and Airborne Systems **June 2017 - Present**
Electro-Optic/Infra-Red Pod (EOIR) Software Engineer

- Increased EOIR C++ test coverage from 22% to 35% by integrating the gcov source code coverage tool into the EOIR build system.
- Discovered numerous memory and threading errors in the EOIR C legacy codebase by using the Valgrind Memcheck/Helgrind tools, leading to an effort by the EOIR software team to correct the errors prior to proceeding with product development.
- NULL

ExxonMobil - Data and Information Systems **May 2016 - August 2016**
Manufacturing and Supply Applications Engineer

- Automated the process of optimally loading chemical cargo aboard vessels by applying dynamic programming techniques, leading to a 20 hours per week time savings.
- Reduced the frequency of chemical cargo contamination by implementing a Java user interface to assist engineers in accurately managing cargo data.
- Applied user-centered design techniques to create a software requirements document providing a base set of requirements for continued product development.

Northrop Grumman - B-2 Defense Management Systems **January 2015 - August 2015**
B-2 Display Systems Software Engineer

- Discovered and removed software defects in the Platform Systems Tools C++ source code using the GNU Debugger and Valgrind Memcheck, saving software quality assurance engineers over 30 hours of testing.
- Increased Platform Systems Tools C++ test coverage from 60% to 68% by implementing over 30 C++ unit tests using the Google Test library.
- Improved the B-2 display system team's API documentation by writing C code snippets demonstrating the intended use and functionality of each method.

Skills

- Languages: C++ (proficient), C (proficient), Java (competent), Python (competent), Bash (competent)
- Testing Tools: Google Test, GNU Debugger, Valgrind Memcheck/Helgrind, Gcov
- Version Control Software: Git, Subversion
- Platforms: GNU/Linux, JIRA, Jenkins CI, Salesforce, Windows 7/10
- Experience performing Agile software development using the Scrum framework.
- Effectively communicate technical specifications and challenges to professionals in non technical domains.
- Enjoy teaching / tutoring others.