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# Ivan Eduardo Guerra

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**GitHub:** [www.github.com/ivan-guerra](http://www.github.com/ivan-guerra)

## Education

**University of Oklahoma: Norman, OK**  
***B.S. Computer Science***

**Graduation Date:** May 2017

- **3.96/4.00** Cumulative GPA
- Mathematics Minor
- Spanish Minor (Bilingual)

- Lean/6 Sigma Green Belt Certified
- University of Oklahoma Honors College

## Professional Experience

**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 cargo processing user interface.
- Applied user-centered design techniques in order to create software requirements documentation providing a base set of requirements for continued product development.

**Northrop Grumman - B-2 Defense Management Systems**

**January 2015 - August 2015**

***Software Engineer for Display Systems Team***

- Updated and expanded API documentation, including code samples, in order to help the development team finish ahead of the deadline in delivering Platform Mission Data Management software to Lockheed Martin
- Located and patched multiple logical defects in the Platform Systems Tools source code using the GNU Debugger, effectively saving upper level developers over 30 hours in software quality assurance testing
- Promoted Lean / 6 Sigma behaviors throughout the software peer review process by working with management to update peer review requirements
- Streamlined the transfer of peer review data to the Weapon Systems Support Center by creating a Visual BASIC macro able to transfer critical peer review form data fields to a formatted text file, saving developers hours of manual data transfer

**OU Microbiology and Plant Biology Department**

**August 2014 - January 2015**

***Undergraduate Researcher in RNA Folding Software***

- Collaborated with a multidisciplinary team to create open source and extensible algorithms in C for computing all possible RNA folding structures, thus helping to advance field knowledge of RNA structure and function
- Located and patched over 50MB in memory leaks within the software using the GNU Debugger and Valgrind Memcheck
- Reported and pursued opportunities for improvement of software documentation both within the source code as well as in websites supported by the Department of Chemistry and Biochemistry

## Skills

- Languages: C++ (proficient), C (proficient), Java (competent), Python (competent), Bash (competent)
- Testing Tools: GNU Debugger, Valgrind Memcheck/Helgrind
- 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