
Ivan Eduardo Guerra

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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

- Prototyped an application for chemical and downstream businesses which automated the decision making process of loading chemical cargo aboard vessels while minimizing the risk of cross contamination
- Implemented a solution using the cloud platform Salesforce.com which allowed users to process and audit vessel cargos in bulk creating an immediate time savings and increasing result accuracy
- Effectively applied user-centered design concepts in order to develop an application which more precisely met user and stakeholder needs across various business units

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