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# Ivan Eduardo Guerra

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

## Employment Profile

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Computer Scientist with software engineering, user-centered design, and process improvement skills seeking to develop a meaningful career within a leading technology company.

## Education

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**University of Oklahoma: Norman, OK**

**Graduation Date for B.S. Degree:** May 2017

*Accelerated B.S./M.S. Computer Science Program*

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

## Professional Experience

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**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

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- Languages: C/C++, Java, Apex, Python (use the GitHub link above to view code samples)
- Platforms: Salesforce, Windows 7 and 8, GNU/Linux
- Testing Tools: GNU Debugger, Valgrind Memcheck
- Version Control Software: Git
- Effectively communicate technical specifications and challenges to individuals outside of technology
- Enjoy teaching / tutoring others

## Honors & Activities

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- Multicultural Engineering Program Award
- Hypercube Award
- Michael Maples Jr. Scholarship
- Engineering Deans and OU Presidents Honor Roll
- Society of Hispanic Professional Engineers
- Sooner Competitive Robotics
- IEEE Technical Society
- The National Society of Collegiate Scholars