

# Juan Luis Burgos

## Current Address

216 Southpoint Crossing Dr.  
Durham, NC 27713

## Contact Info

juanlb1988@gmail.com  
(254)-449-6995

## Education

**Bachelor of Science, Texas A&M University**, May 2013  
**Majors:** Computer Engineering and Applied Mathematical Science  
**Overall GPA:** 3.63 / 4.00

## Technical Skills

Familiar with Windows, MacOS, and Linux operating systems.  
Experience programming in C/C++, Ruby, Python, Shell, L<sup>A</sup>T<sub>E</sub>X.

## Relevant Experience

<b>Staff Software Engineer</b>	IBM Corporation (Tivoli Monitoring) Durham, NC	August 2016 - Present
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Primary Role: Lead Ruby on Rails developer on our backend endpoint that manages the creation, modification, and destruction of SaaS subscriptions and integration with other services.

Responsibilities include:

- Continued application development for backend services.
- Updating and maintaining of Apache and Haproxy servers in support of different products.
- Working directly with devops teams for separate products in support of customer subscription maintenance and issue resolution.

<b>Backend Engineer</b>	IBM Corporation (Tivoli Monitoring) Durham, NC	July 2014 - August 2016
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Primary Role: Ruby on Rails developer on our backend endpoint that manages the creation, modification, and destruction of SaaS subscriptions and integration with other services.

Responsibilities include:

- Ruby and bash script development for the Rails backend application.
- Supporting infrastructure team in the introduction of new API flows.
- Assisting APM SaaS Operations team during product releases.

<b>Software Engineer</b>	IBM Corporation (Tivoli Monitoring) Durham, NC	July 2013 - July 2014
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Primary Role: APMSaaS agent developer for a new Ruby on Rails monitoring agent.

Responsibilities include:

- Design and implementation of the resource monitoring agent.
- Daily interaction with testers to address bug reports and new feature requests.
- Assisting in the development of other monitoring agents. Example: MongoDB.

<b>Undergraduate Researcher</b>	Parasol Lab at Texas A&M College Station, TX	June 2010 - May 2013
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Conducted research in the area of Sampling Based Motion Planning (SBMP) under the guidance of Dr. Nancy Amato. Areas of interest include Parallel Computing and Intelligent Distributed Systems.

January 2009 - May 2011

Helped students in concepts ranging from Single to Multi-Variate Calculus, Differential Equations, and Linear Algebra using Matlab and MapleSoft programming.

June 2009, 2010, 2011

Mentored middle school students in their exploration of the world of mathematics through group activities and MapleSoft programming at annual math-oriented summer camp.

## Honors and Memberships

*Cum Laude Honors*, 2013  
*Undergraduate Research Fellows Honors*, 2013  
*University Honors*, 2013  
*Engineering Scholar Honors*, 2013  
*Upsilon Pi Epsilon Membership*, 2013  
*Dean's List*, 2008 - 2013  
*Distinguished Student Award*, 2010  
*Pi Mu Epsilon Membership*, 2009  
*Title of Computer Science Ambassador*, 2008 - 2009 & 2010 - 2012  
*Student Engineers' Council*, 2008 - 2011

## Publications

Juan Burgos, Jory Denny, Nancy M. Amato, *"Improving Roadmap Quality through Connected Component Expansion,"* Technical Report, TR13-003, Texas A&M University, Apr 2013.

Samuel Rodriguez, Jory Denny, Juan Burgos, Aditya Mahadevan, Kasra Manavi, Luke Murray, Anton Kodochygov, Takis Zourntos, Nancy M. Amato, "*Toward Realistic Pursuit-Evasion Using a Roadmap-Based Approach*," In Proc. IEEE Int. Conf. Robot. Autom. (ICRA), pp. 1738-1745, May 2011.

Sam Ade Jacobs, Kasra Manavi, Juan Burgos, Jory Denny, Shawna Thomas, Nancy M. Amato, "A Scalable Method for Parallelizing Sampling-Based Motion Planning Algorithms," In Proc. IEEE Int. Conf. Robot. Autom. (ICRA), pp. 2529-2536, St. Paul, Minnesota, USA, May 2012.

Samuel Rodriguez, Jory Denny, Aditya Mahadevan, Jeremy (Cong-Trung) Vu, Juan Burgos, Takis Zourntos, Nancy M. Amato, "*Roadmap-Based Pursuit-Evasion in 3D Structures*," In Proc. of 24th Intern. Conf. on Computer Animation and Social Agents (CASA), 2011, in Transactions on Edutainment, pp. to appear, May 2011.

## References Available Upon Request