

Juan Luis Burgos

Current Address

1412 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

Relevant Experience

Backend Engineer

IBM Corporation (Tivoli Monitoring)
Durham, NC

July 2014 - Present

Continued development of a back-end Ruby on Rails application that manages user subscriptions to SaaS-based product offerings. Responsibilities include continued development of the application as a whole and improvements to our custom CLI used to service administrative tasks such as modifying user subscriptions.

Software Engineer

IBM Corporation (Tivoli Monitoring)
Durham, NC

July 2013 - July 2014

Helped develop a Ruby on Rails monitoring agent that provided users with multiple resource usage metrics as well as a dynamic code level performance analysis tool for locating performance issues on the fly. My responsibilities included resource usage monitoring, including both system and network usage, log monitoring, and UI design for our web-based interface.

Undergraduate Researcher

Parasol Lab at Texas A&M
College Station, TX

June 2010 - May 2013

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.

Matlab Tutor

Calclab at Texas A&M
College Station, TX

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.

SEE Math Camp Counselor

Dept. of Mathematics
College Station, TX

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.

Technical Skills

Familiar with Windows and Linux operating systems.

Experience programming in C/C++, Matlab/Octave, Perl, Python, Ruby, Shell, L^AT_EX.

Honors and Memberships

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