Juan Luis Burgos

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1412 Southpoint Crossing Dr.
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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, Shell, LaTeX.

Relevant Experience

Staff Software Engineer	IBM Corporation (Tivoli Monitoring) Durham, NC	August 2016 - Present

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 micro-service API and test framework development for distributed 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.

Backend Engineer	IBM Corporation (Tivoli Monitoring) Durham, NC	July 2014 - August 2016

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.

Software Engineer	IBM Corporation (Tivoli Monitoring) Durham, NC	July 2013 - July 2014

Primary Role: APMSaaS agent developer for a new Ruby on Rails monitoring agent.
Responsibilitie 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.

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 | January 2009 - May 2011 |
| | College Station, TX | |

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 | June 2009, 2010, 2011 |
| | College Station, TX | |

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

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