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, Python, 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 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.

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