

Juan Luis Burgos

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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++, Java, Ruby, Python, Lua, Shell, \LaTeX .

Relevant Experience

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|---|---|--------------------------------|
| Staff Software Engineer | IBM Corporation
Durham, NC | August 2016 - Present |
| <ul style="list-style-type: none">• Worked with international team to integrate data-analytics functionality into the IBM Cloud Pak for Multicloud Management performance monitoring product.• Designed and implemented a dockerized micro-service that manages user-defined configurations for data-analytics functionality.• Continuing development and support for multiple backend Ruby on Rails endpoints, maintenance for Apache and Haproxy servers, and inter-service integrations.• Continuing direct support of DevOps and Infrastructure teams for SaaS environment maintenance/upgrades and customer issue resolution. | | |
| Backend Engineer | IBM Corporation
Durham, NC | July 2014 - August 2016 |
| <ul style="list-style-type: none">• Lead Ruby on Rails developer on our backend endpoint that manages the creation, modification, and destruction of SaaS subscriptions and integration with other services.• Implemented backend scripts in Ruby, Perl, and Bash that supported E2E SaaS subscription life-cycle flows.• Implemented web interface providing users with monitoring agent, configuration package, and development tool download capability.• Supported infrastructure team in the introduction of new API flows.• Assisted APM SaaS Operations team during product releases. | | |
| Software Engineer | IBM Corporation
Durham, NC | July 2013 - July 2014 |
| <ul style="list-style-type: none">• Designed and developed a new Ruby on Rails agent for the Application Performance Monitoring on SaaS (APMSaaS) product.• Daily interaction with global test teams to address bug reports and new feature requests.• Assisted in the development of other monitoring agents (i.e. MongoDB, PHP). | | |
| Undergraduate Researcher | Parasol Lab at Texas A&M
College Station, TX | June 2010 - May 2013 |
| <ul style="list-style-type: none">• Conducted research in the area of Sampling Based Motion Planning (SBMP) under the guidance of Dr. Nancy Amato.• Worked on multiple research papers and completed senior research thesis as part of my B.S. Computer Engineering degree plan.• Attended multiple research seminars and a Computing conference in Washington D.C. | | |
| Matlab Tutor | Texas A&M University
College Station, TX | January 2009 - May 2011 |
| <ul style="list-style-type: none">• Directly tutored both individual students and large groups on concepts ranging from Single to Multi-Variate Calculus, Differential Equations, and Linear Algebra using Matlab and MapleSoft programming languages. | | |

SEE Math Camp Counselor

**Texas A&M University
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 held by the Texas A&M Department of Mathematics.

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