

Jonathan Monette

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EDUCATION	The University of Texas at Austin Bachelor of Science in Computer Science	December 2011
EXPERIENCE	Computation Institute at the University of Chicago , Chicago, Illinois <i>Software Developer</i> <ul style="list-style-type: none">Working with the Swift parallel scripting language supervised by Mike WildeDeveloping tools, knowledge, and framework for science gateways University of Texas , Austin, TX <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Working with the FLAME project supervised by Robert Van de GeijnCreated a tool that takes index free abstracted code and generates a more traditional style of code with explicit indexing. Argonne National Labs , Argonne, Illinois <i>SULI Participant</i> <ul style="list-style-type: none">Worked with the Swift parallel scripting language supervised by Mike WildeDeveloped a framework to integrate Swift as an execution provider under GlobusOnline Argonne National Labs , Argonne, Illinois <i>SULI Participant</i> <ul style="list-style-type: none">Worked with the Swift parallel scripting language supervised by Mike Wilde and Dan KatzWrote Swift scripts to run the Montage Astronomical Image Mosaic Engine on the grid	Current Current June 2011 - August 2011 June 2010 - September 2010
PROJECTS	GOSwift , [Python] http://www.cs.utexas.edu/users/jonmon/GOSwift.html <ul style="list-style-type: none">Developing framework to integrate Swift and an execution provider for GlobusOnlineDeveloping knowledge and frameworks for other science gateways SwiftMontage , [Swift, Python, C] http://www.cs.utexas.edu/users/jonmon/SwiftMontage.html <ul style="list-style-type: none">Developing Swift scripts and execution system to run the Montage Astronomical Image Mosaic Engine on the grid. FLINT , [Python] http://www.cs.utexas.edu/users/jonmon/FLINT.html <ul style="list-style-type: none">Developing tool to translate index free abstracted code to explicit indexing code	
PUBLICATIONS	"FLAMES2S: From Abstraction to High Performance" , Technical Report http://www.cs.utexas.edu/users/flame/pubs/FLAWN35.pdf	
SKILLS		
Systems Proficiency	Programming Languages: Java, Python, C, CUDA, Fortran Frameworks/Libraries: OpenMPI, OpenMP Operating Systems: Linux, OS X Tools: Subversion, Git, GNU Makefile, LaTeX, asciidoc, Apache Ant	
Course Work	Computer Architecture, Algorithms and Data Structures, Programming Languages, Algorithms, Operating Systems, Software Engineering, High-Performance Libraries, Programming for Performance, Practical Linear Algebra, Numerical Analysis, Applied Linear Algebra	