



November 9 – 15, 2008

LSU Student Selected to Participate in Google's Summer of Code 2008

While many LSU students spent their summer vacations relaxing, taking exotic trips or catching up with summer school, LSU computer science student Michael Miceli spent Summer 2008 participating in the Google Summer of Code.

LSU Department of Computer Science Professor Shantenu Jha, who holds a joint appointment with the CCT where Miceli is a student worker, mentored Miceli throughout this project, along with Hartmut Kaiser, Ph.D., a CCT research staff member. OMII-United Kingdom served as Miceli's mentoring organization.

Google accepts applications from graduate and undergraduate students around the world for Summer of Code. The students propose projects that involve writing open source code, and mentoring organizations or professors support the students in requesting funding for their projects. Google funded nearly 1,000 projects for summer 2008, including Miceli's. The participating students worked from the end of May through the beginning of September writing their codes.

Through his work at the CCT, Miceli designs applications for the Simple API for Grid Applications, or SAGA, software program, which Jha works on at CCT. SAGA provides an open-source interface so more people can take advantage of Grid computing, which links many computing systems together, allowing researchers to access more power and solve complex problems faster than working on one computer alone.

Through Google Summer of Code, Miceli extended his work at the CCT, and wrote an open source implementation of MapReduce using SAGA. MapReduce is a program in which users employ a mapping technique to analyze and generate large amounts of data, and these projects can run more efficiently if users are able to access Grid computing through SAGA. Miceli's code will aid users in this process.

Throughout the summer, Miceli communicated with Google and other students on the project through a Summer of Code mailing list to update them on his progress. At the end of summer, Miceli posted his code on code.google.com.

"It is certainly an honor to have one of our students selected from among an international pool of recipients for this summer experience," Jha said. "This also gave Michael a chance to expand on his CCT work and collaborate with peers from around the world,

which gives him information and ideas he can draw on throughout his undergraduate career here at LSU.”

For more information on Google Summer of Code, please visit <http://code.google.com>.

Pats on the Back:

- Professor Thomas Sterling will again teach his “High-Performance Computing: Models, Methods and Means” course in the Spring 2009 semester, using the newly refurbished Coates 202 teleconference classroom. Sterling pioneered this teaching method in the Spring 2007 semester after working with a team of researchers from the CCT, MCNC in North Carolina and Masaryk University in the Czech Republic to develop HD streaming and Access Grid applications for educational purposes. This course was the first of its kind in the United States when it premiered in January 2007, and his course was an inspiration for the University to dedicate a sole classroom to teleconferenced courses. The course will take place from 10:30-noon on Tuesdays and Thursdays in the spring semester.

CCT in the News:

Increasing Clouds

Source: [HPC Wire](#)

It seems hardly a week passes without some news of HPC being delivered as an on-demand service. That topic includes everything from in-house grids to commercial clouds, but it's the cloud element that's grabbing the attention of the supercomputing crowd.

http://www.hpcwire.com/blogs/Increasing_Clouds_34060194.html

Upcoming Lectures:

- Michael Parks of Sandia National Laboratories lecture as part of the Colloquium Series on “Towards Multiscale Materials Modeling with Peridynamics.” The lecture will take place Friday, Nov. 14 at 11:30 a.m. in 338 Johnston.
- Robert M. Kirby will speak as part of the Computational Mathematics Seminar Series on “Visualization of High Order Finite Element Methods” on Dec. 1 at 10:30 a.m. in Johnston 338. He also will deliver a special guest lecture on Dec.2 on “Building Symbiotic Relationships Between Formal Verification And High Performance Computing” at 2 p.m. in Johnston 338.

Workshop and Conference News:

- SC08 is next week in Austin, TX. If you will attend, please check the participant wiki at <https://wiki.cct.lsu.edu/sc-private/Participants> for the latest information, and plan to attend the SC08 meeting on Wednesday, Nov. 12 at 3:30 p.m. (following the ALL CCT meeting.) The SC08 meeting is pertinent in that Jarek Nabrzyski, Steve Beck

and Kristen Sunde will go over booth talking points and how to answer questions that might come up.

Please Note:

- AVATAR and CCT will host a pizza party and film festival tonight to recruit SIGGRAPH 2009 student volunteers at 6 p.m. in 338 Johnston. Students who decide to volunteer will receive free admission to all parts of the conference and have the opportunity to experience SIGGRAPH while learning about the world of computer graphics, interactive systems and digital media.
- Please contact Debra Waters by Wednesday, Nov. 12 if you plan to attend the CCT Holiday Lunch. The lunch is planned for Tuesday, Dec. 2 at Mike Anderson's. The cost will be \$13.60 per person, which must be paid in advance. E-mail debra@cct.lsu.edu for more information.
- **The next All CCT Meeting will be this Wednesday, Nov. 12 at 3 p.m., followed by a 3:30 p.m. meeting for all those attending SC08. If you have announcements or news for the ALL CCT meeting, please send to Events Manager Karen Jones at kjones@cct.lsu.edu.**
- CCT is encouraging state researchers to propose projects that involved the LONI Institute Computational Scientists. These scientists will be able to take advantage of cyberinfrastructure across LONI and the nation. Projects will be based on applications from all state campuses, with applicants being encouraged to commit some internal resources. Please send your proposals (up to 1 page) to manager@institute.loni.org, by Nov. 27. For more information, contact Bety Rodriguez-Milla at brodrig@cct.lsu.edu.
- **Dependent Verification Policy – All active or retired employees who have dependents covered under the policy, must provide written proof that each dependent is their actual legal dependent. Employees who have dependents covered under any of the health plans must show proof of dependent status by submitting acceptable certified documents. To avoid being dropped from their health plan on Dec. 31, ALL CERTIFIED DOCUMENTS SHOULD BE SUBMITTED TO HRM BY NOV. 30, 2008. The designated dates and times to submit these documents are below and the Benefits Representative must see a certified copy, but will only be required to obtain a photocopy of the document, and the certified copy will be returned to the employee.**

Important Dates

Nov 18

Acadian Room, LSU Union

8:30 AM - 12:30 PM

- If you have any news for the CCT Weekly, please e-mail PR Manager Kristen Sunde directly at ksunde@cct.lsu.edu.

Upcoming Grant Deadlines:

Note: Please see the CCT deadline Web site, as many NSF deadlines are listed here:

<http://www.cct.lsu.edu/about/grants/deadlines/events.php>

Cyber-Enabled Discovery and Innovation (CDI)

November 21 2008 10:00 am

At Least \$ 26,000,000.00 available

http://www.nsf.gov/pubs/2008/nsf08604/nsf08604.htm?govDel=USNSF_25