October 16 - October 22, 2011

LSU CCT iOS Training for Growing Mobile Application Market Spurs Student Company

As smartphone functionality continues to develop, it's safe to say that the demand for qualified app programmers will create the newest, hottest job market for college graduates.

The LSU Center for Computation & Technology (CCT), in an effort to introduce students to this exciting new IT profession, hosted a two-week summer camp to train LSU students in iOS application development, entrepreneurial tips, and hands-on mobile computing knowledge. Fifty-eight students representing 28 different LSU degree majors attended the camp.

A first of its kind at LSU, the bootcamp targeted the transition from portable, medium-scale computing to mobile computing, a change that is inevitable with new technology development. Instruction for the camp was engineered by both GeniusPort, an App training company, and CCT personnel.

"Students need awareness and education in the mobile computing arena so they can be prepared for this transformation," said Ravi Paruchuri, organizer of the camp and LSU CCT assistant director of research and advanced computing.

Participants of the camp were very enthusiastic and by the end of the camp produced some great projects. A few students built on the knowledge gained at the bootcamp to form their own company.

"iOS Boot Camp was great because it provided us with a practical working knowledge of the concepts that we went on to use for No App.ologies, LLC," said Rebecca Pearson. "Our company was especially inspired by the effectiveness of small teams in enhancing creativity and developing apps."

No App.ologies, LLC, created by Timmy Meighan (CEO) and Rebecca Pearson (COO), both students in the LSU College of Humanities and Social Sciences, was designed to create original iPhone apps that will allow students central accessibility to the knowledge and resources they want, whether it be through a textbook or hands-on instruction. Other members of the company are James Ramsey IV, LSU student in the College of Engineering, and Derrick Hoenig, a graduate of the University of Central Florida, who will provide an artistic vision with experience in graphic design.

No App.ologies is currently developing two apps. One is for a local high school's National Honor Society to help in the development of a tourism app. For the second app, they are teaming up with an LSU organization to create a positive economic impact on the lives of those living on and around campus. They aim to have these completed by December, with a third one underway.

To continue with the excitement of the camp's instruction, CCT has created the Mobile App | Art | Action Group, or MAG, led by Jesse Allison, camp co-organizer and LSU assistant professor of experimental music and digital media in the School of Music and Center for Computation & Technology. This group is not limited by mobile platform, application area, or area of interest. Participants of MAG come together to share their progress, receive feedback and help, connect with others, and get inspired to try innovative things with mobile computing.

"Attending the iOS Bootcamp served as the first source of formal training for our primary team members," said Pearson. "We look forward to maintaining our relationship with the iOS Boot Camp organizers, and continuing our education by attending the Mobile Apps Group Meetings at LSU."

"Development for this computing platform engages business people; graphic, interaction, and game designers; musicians; engineers; social media practitioners; marketing and advertising specialists; and even a few programmers," said Allison. "I'm excited about the future of this endeavor—exploring new modes of engagement in mobile programming and mobile environments, as the platform reaches an incredible variety of students, potential fields of application, and relevance in a changing digital landscape."

The MAG encourages participation from students, faculty, and professionals, as well as industry representatives. More information about MAG can be received by joining the mag-announce and mag-discuss mailing lists; just email anything to mag-announce-join@cct.lsu.edu and mag-discuss-join@cct.lsu.edu. mag-announce is used to distribute information on upcoming meetings and relevant campus and community events while mag-discuss is a more informal place for the community to ask questions, post interesting developments, and find collaborators.

"CCT faculty, staff, and student research assistants have developed novel applications of mobile computing—and even new mobile computing hardware platforms—for a number of years within research labs and LSU classrooms," said Brygg Ullmer, associate professor of the LSU Department of Computer Science and Center for Computation & Technology, and also a camp co-organizer. "Many of these efforts have been under the umbrella of LSU's Arts, Visualization, Advanced Technologies, and Research program, or AVATAR / digital media efforts, with support from both state and federal research grants."

With MAG, CCT intends to empower students, staff, and faculty to become part of this technology shift. MAG focuses on all the available platforms to deliver mobile computing and also is exploring ways of introducing its participants to multiple platforms and providing training in how to use them.

The iOS applications bootcamp is one way CCT is engaging broader audiences, cultivating enthusiasm, engagement, and economic and workforce development across the full landscape of academic and professional disciplines.
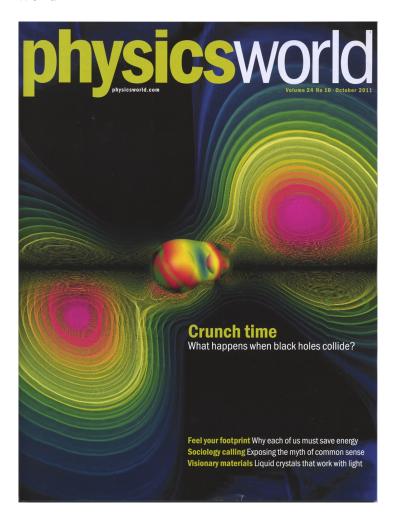
"App development has a huge growth potential," said Joel E. Tohline, director of the LSU CCT. "Imagine how courses across the University might be transformed and the entrepreneurial spirit of students enhanced if every LSU freshman arrived on campus with the ability to develop their own iOS app."

Ubiquitous computing is here, and now is an exciting time for exploring and creating new ways to use mobile applications.

More information on No App.ologies can be viewed at: noapp-ologies.com.

Pats on the back:
*   Werner Benger's black hole image made the cover of the October issue of Physics World

Lectures this week:

WEDNESDAY--
There will be a special guest lecture on "HPX: C++ Metaprogramming Meets Future High Performance Computing" by Thomas Heller, University of Erlangen-Nuremberg. The lecture will take place Wednesday, October 19 at 1:00 pm in 218 Johnston Hall.

There will be a SIAM Chapter Talk on "Numerical Techniques In Optimal Control" by William Hager, University of Florida. The lecture will take place Wednesday, October 19 at 3:00 pm in 338 Johnston Hall.

CCT Welcomes:
Tim Wright joined Ravi Paruchuri's group as an IT Analyst 2- User Support.

CCT in the news:
Power a Major Hurdle on Road to Exascale
Source: Scientific Computing

Please Note:

- CCT invites faculty, staff, students and special guests to its 10th Year Celebration of the center's successful growth from its birth as "LSU CAPITAL" to a vibrant center for interdisciplinary computational research, training, and economic development. The celebration is October 26, 2011 (8:30 A.M. - 5:30 P.M.) at the LSU Energy, Coast & Environment Building Rotunda Auditorium and Lobby. Lunch will be provided free of charge in the Rotunda**.** Please RSVP to susie@cct.lsu.edu to reserve your lunch seat (deadline: October 21st). For more information, visit http://www.cct.lsu.edu/10yr

- The 2011 ACM ICPC South Central USA Regional Programming Contest is now accepting team entries for the October 28 and 29th event. The ACM International Collegiate Programming Contest (ICPC) provides college students with opportunities to interact with students from other universities and to sharpen and demonstrate their problem-solving, programming, and teamwork skills. The contest provides a platform for ACM, industry, and academia to encourage and focus public attention on the next generation of computing professionals as they pursue excellence. The contest is a two-tiered competition among teams of students representing institutions of higher education. Teams first compete in regional contests held around the world from September to November each year. The winning team from each regional contest qualifies to advance to the ACM International Collegiate Programming Contest World Finals, typically held the following March to mid-April. Additional high-ranking teams may be invited to the World Finals as wild card teams. Fees are

$175.00 per team. Registration fees are for a team of three members and one coach. Guests and alternates are an additional $30 each. (See complete registration rules at: http://icpc.baylor.edu/icpc/regionals/About.htm). The South Central USA Regionals will take place on October 28 and 29th at
- o Louisiana State University, Baton Rouge, Louisiana
- o Baylor University, Waco, Texas
- o La Tourneau University, Longview, Texas
- o East Central University, Ada, Oklahoma

For more information, or to register a team, visit:
http://icpc.baylor.edu/icpc/regionals/.

- Submissions for the 2012 Red Stick International Animation Festival are now being accepted thru January 6th. Visit http://www.redstickfestival.org/competition/submissions/ for details.

- **TRIPLE EX (Excite, Explore, Experiment)** - 3rd Annual Conference for Undergraduate Research, November 4, 2011 (8:00AM - 4:00 PM), LSU Union Cotillion Ballroom. The LSU Office of Strategic Initiatives and The Cain Center are sponsoring a Conference for Undergraduate Student Research. Submissions are open until October 3rd for posters and oral presentations. For more information, visit http://www.i3.lsu.edu/tripleex

- Louisiana EPSCoR is hosting the greatly anticipated National Science Foundation workshop, *Science: Becoming the Messenger,* on November 17, 2011, at the Baton Rouge Marriott. The 1-day workshop provides targeted communications training to Researchers, Faculty & Postdocs, Students, Public Relations Officers and Communicators. The NSF's Office of Legislative and Public Affairs has assembled a team of nationally renowned communicators to provide this training. Participants will learn how to craft a message and communicate with a variety of audiences, explore new media, pick up live camera interview skills and more. There is no registration fee to attend but pre-registration is required. For more information and to register, visit http://www.nsf.gov/events/event_summ.jsp?cntn_id=121922&org=NSF

- **Post Your Part-time Jobs for FREE through Careers2Geaux:** Now that school is back in session, our students looking for part-time jobs. Through Careers2Geaux, you may post any position type, including your part-time opportunities, for FREE! This system is password-protected and available to LSU students, faculty, staff, and registered alumni 24 hours a day, seven days a week. To list your position(s) in Careers2Geaux, click the Careers2Geaux link https://lsu-csm.symplicity.com/employers and follow the instructions for creating an account. Once you enter the information for your position, the status of your posting will remain "pending" until reviewed by a staff member. Open positions are posted for 45 days. If you have any questions, please contact Amy Caillouet, Administrative Coordinator, at 225-578-2162 or email at amyc@lsu.edu.

- Prior approval is required for Special Meal Requests. Employees who make meal purchases without prior approvals may find that they must cover the cost of any

monies spent for an unapproved event out of pocket. Dine-in restaurant meals are not allowed on LaCarte credit cards. Please contact Susie McGlone (susie@cct.lsu.edu) prior to any special meal with visitor(s) to file the appropriate request for approval. Prior approval could take up to two weeks, so please plan accordingly.

- Please remember to send your news concerning grants, awards, conferences, or other pertinent information to CCT Event Coordinator Jennifer Fontenot at jennifer@cct.lsu.edu

- Follow CCT with social media to access photos and see news, events or updated information. These pages are public; you do not need an account to view the information.
  - Facebook group : LSU Center for Computation & Technology
  - Twitter : LSUCCT
  - YouTube channel : LSUCCT

Interest groups:
- **MAG (Mobile App-Art-Action Group)**: Everyone interested in the potential for Mobile Apps is invited to come and add their vision for these revolutionary devices. Meetings are schedule November 2nd and December 7th, 5:00-6:00 pm. For more information, visit http://www.cct.lsu.edu/site.php?pageID=63&newsID=1402
  - Contact: Jesse Allison (jtallison@lsu.edu)

- **GPU**: meets weekly (Wednesdays @ 2:30 pm in 338 Johnston) and encourages participation from anyone who would like to join in the discussions. Join the mailing list: lasigma-gpu@loni.org
  - Contact: Bhupender Thakur (bthakur@cct.lsu.edu)

Upcoming events:
October 19: Training: Intro to OpenMP Programming
October 24-25: Electronic Arts Recruitment @ LSU
October 24: Cinema for the Ears
October 26: CCT's 10th Year Celebration
October 26: Training: Bash Scripting Tutorial
October 28-29: ACM ICPC South Central USA Regional Programming Contest
Thru November 1: Symposium on Laptop Ensembles & Orchestras accepting entries
November 2: Training: Make Tutorial
November 10: Red Stick Animation Festival Fall Retrospective
November 12-18: SC11
Thru January 6, 2012: Red Stick International Animation Festival "Best of the Fest" accepting entries

Upcoming Grant Deadlines:
Note: Please check the CCT deadline Web site, since it is updated daily.

Partnerships for International Research and Education (PIRE)
October 19, 2011 10:00 am
At Most $ 4,000,000.00 available

Sustainability Research Networks Competition (SRN)
December 1, 2011 10:00 am
At Most $ 12,000,000.00 available

Software Infrastructure for Sustained Innovation (SI2) Scientific Software Innovation
Institutes (S2I2)
December 14, 2011 10:00 am
At least $500,000.00 available